

CPC464
CPC6128
GT65
GT65
CTM644
MP3
CT1
AMENDMENT
SERVICE MANUAL

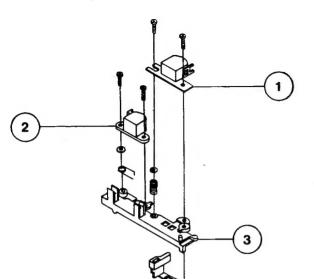
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CPC464 SECTION

CPC464 ELECTRICAL PARTS LIST

| Ref. No. | Description | Part No. | | | |
|---|--|--|--|--|--|
| IC's | | | | | |
| IC101 IC102 IC103 IC104, 105, 109 113 | IC DN74LS145 IC AY-3-8912 IC Amstrad 40009 IC DN74LS153 | 170101 40001 170102 170103 | | | |
| IC106 IC107 IC108 IC110 IC111 IC112 IC114 IC115 IC116 IC117-124 IC125 IC301 IC302 | IC DN74LS273 IC TMP-8255AP IC HD6845SP IC DN74LS132 IC Z8400APS IC DN74LS32 IC DN74LS373 IC DN74LS244 IC AMS40010 IC KM4164B-15 IC TC74HCU04AP IC LA4140 IC LA6324 | 170104 170105 170106 170107 40080 40013 170108 170109 40010 170110 40008/A 170111 | | | |
| Transistors | • | | | | |
| Q101 Q102, 301 | TR KTC2120Y TR KTC1815-T | 170113 170447 | | | |
| Diodes | | | | | |
| D101 D301 D302 | D 1S2472T-77 D 1N4002 LED | 170115 400111 170116 | | | |
| Ref. No. | Description | Part No. | | | |
| Coils | | | | | |
| L301 | Coil 82µH | 170117 | | | |
| Crystals | | | | | |
| X101 | Crystal HC-49/U | 170125 | | | |
| Switches SW301 SW302 SW303 | Switch, Slide Switch, Slide Switch, Key Board | 170122-A 170002 170007-C | | | |
| Variable Resisto | or | | | | |
| VR301 | VR Rotary 20kΩ | 170003 | | | |
| Miscellaneous | | | | | |
| R326 NR101 SP301 RY301 | Resistor Fuse $4.7\Omega/1/4W$ Resistor Network $2.2k\Omega \times 6$ Speaker Relay | 170130 170131 170124 170123 | | | |
| Sockets | | | | | |
| J101 J102 J103 J104 | Jack DIN Socket, D Sub 9 Pin Jack 3.5 Jack DC | 170025 170023-2 170022 170024 | | | |

| CPC484 CABINET PARTS LIST REM Description Part No. 170008 1 | | | |
|--|--|--|----------------------|
| CPC464 CABINET PARTS LIST Ref. Description 1 LLI Cassette Assembly 1700016 2 Cabinet, Poto Assembly 1700044 4 Knob, Volume 170004 5 Button, Pay 170016 8 Button, Pay 170016 8 Button, Pay 170016 9 Button, Pause 170017 10 Button, Pause 170017 11 Button, Storfiele 170019 12 Button, Pause 170019 13 Button, Pause 170019 14 Counter Belt 170019 15 Button, Pause 170019 16 Button, Pause 170019 170011 18 Button, Pause 170019 | | | |
| CPC464 CABINET PARTS LIST Ref. Description 1 LLI Cassette Assembly 1700016 2 Cabinet, Poto Assembly 1700044 4 Knob, Volume 170004 5 Button, Pay 170016 8 Button, Pay 170016 8 Button, Pay 170016 9 Button, Pause 170017 10 Button, Pause 170017 11 Button, Storfiele 170019 12 Button, Pause 170019 13 Button, Pause 170019 14 Counter Belt 170019 15 Button, Pause 170019 16 Button, Pause 170019 170011 18 Button, Pause 170019 | | | |
| CPC464 CABINET PARTS LIST Ret. Description 1 LLd, Cassette Assembly 170031/A 4 Knob. Volume 1700304/A 4 Knob. Volume 1700304/B 5 Button, Flowind 170018 18 Button, Flowind 170018 19 Button, Flowind 170019 10 Button, Flowind 170010 11 Button, Stor/Field 170011 10 Countre Bell 170011 11 Button, Flowind 170010 11 Button, Flowind 1 | | | |
| CPC464 CABINET PARTS LIST Ret. Description 1 LLd, Cassette Assembly 170031/A 4 Knob. Volume 1700304/A 4 Knob. Volume 1700304/B 5 Button, Flowind 170018 18 Button, Flowind 170018 19 Button, Flowind 170019 10 Button, Flowind 170010 11 Button, Stor/Field 170011 10 Countre Bell 170011 11 Button, Flowind 170010 11 Button, Flowind 1 | 107000000 | | |
| CPC464 CABINET PARTS LIST Ret. Description 1 LLd, Cassette Assembly 170031/A 4 Knob. Volume 1700304/A 4 Knob. Volume 1700304/B 5 Button, Flowind 170018 18 Button, Flowind 170018 19 Button, Flowind 170019 10 Button, Flowind 170010 11 Button, Stor/Field 170011 10 Countre Bell 170011 11 Button, Flowind 170010 11 Button, Flowind 1 | Topologia and the state of the | | |
| CPC464 CABINET PARTS LIST Ret. Description 1 LLd, Cassette Assembly 170031/A 4 Knob. Volume 1700304/A 4 Knob. Volume 1700304/B 5 Button, Flowind 170018 18 Button, Flowind 170018 19 Button, Flowind 170019 10 Button, Flowind 170010 11 Button, Stor/Field 170011 10 Countre Bell 170011 11 Button, Flowind 170010 11 Button, Flowind 1 | OTRODINO. | | |
| CPC464 CABINET PARTS LIST Ret. Description 1 LLd, Cassette Assembly 170031/A 4 Knob. Volume 1700304/A 4 Knob. Volume 1700304/B 5 Button, Flowind 170018 18 Button, Flowind 170018 19 Button, Flowind 170019 10 Button, Flowind 170010 11 Button, Stor/Field 170011 10 Countre Bell 170011 11 Button, Flowind 170010 11 Button, Flowind 1 | 1 ONDO TO THE STATE OF THE STAT | | |
| ## CPC464 CABINET PARTS LIST CPC464 CABINET PARTS LIST | | | |
| ## CPC464 CABINET PARTS LIST CPC464 CABINET PARTS LIST | ************************************** | | |
| CPC464 CABINET PARTS LIST Comparison | O COLONDO | | |
| CPC464 CABINET PARTS LIST Comparison | | | |
| CPC464 CABINET PARTS LIST Ret. Description Part No. | | (2) | |
| CPC464 CABINET PARTS LIST Ret. Description Part No. | | | |
| CPC464 CABINET PARTS LIST Ref. Description Part No. | PCB303 | | |
| CPC464 CABINET PARTS LIST Ref. Description Part No. | | | |
| Ref. Description Part No. | 3 | | |
| Ref. Description Part No. | | | |
| Ref. Description Part No. | | CPC464 CABINET PARTS L | IST |
| Todo (Cabinet, Top Assembly 170006) Cabinet, Top Assembly 170006 Knob, Volume 170004 Cabinet, Bottom 1700030/A Button, Record 170015 Button, Flavy 170016 Button, Flavy 170016 Button, Flavind 170017 10 Button, Flavind 170018 Button, Playse 170029 Counter Belt 170014 Counter Today 170013 *For parts not listed in this please refer to original manual. | | | |
| 2 Cabinet, Too Assembly Knob, Volume 1700004 6 Cabinet, Bottom 1700016 8 Button, Record 170016 8 Button, Rewind 170017 10 Button, Forward 11 Button, SporyEject 11 12 Button, Plays 170018 11 2 Counter Belt 170018 170019 | | | |
| 4 d Cabinet, Watter 1770030/A 170030/A 170030/A 170016 170016 170016 170016 170016 170016 170016 170016 170016 170016 170016 170018 170018 170018 170018 170019 170 | | Lid, Cassette Assembly Cabinet, Top Assembly | 170006 170031/A |
| ## Sutton, Record 170016 170016 170016 170016 170016 170016 170016 170016 170018 170018 170018 170018 170018 170018 170018 170019 1 | 4 | Knob, Volume | 170004 |
| 8 Button, Rewind 170017 10 Button, Stop/Eject 170019 11 Button, Stop/Eject 170019 12 Button, Pause 170014 Counter Belt Counter *For parts not listed in this please refer to original manual. 13 PERSON *For parts not listed in this please refer to original manual. | 7 | Button, Record | 170015 |
| 10 Button, Stop/Eject 170018 Button, Pause 170020 Counter Belt Counter Belt Counter Belt Counter Tool 14 170013 *For parts not listed in this please refer to original manual. 13 **REBION **REB | | Button, Play | 170016 |
| 12 Button, Pause 1700024 Counter Belt 170013 *For parts not listed in this please refer to original manual. 13 Total Action of the present of the please refer to original manual. | 10 | Button, Forward | 170018 |
| Counter Belt Counter For parts not listed in this please refer to original manual. | | Button, Stop/Eject Button, Pause | 170019 170020 |
| *For parts not listed in this please refer to original manual. 13 *For parts not listed in this please refer to original manual. *For parts not listed in this please refer to original manual. *For parts not listed in this please refer to original manual. *For parts not listed in this please refer to original manual. *For parts not listed in this please refer to original manual. | | Counter Belt | 170014 |
| please refer to original manual. | | Counter | 170013 |
| P(B)(I) P(C)(S)(I) | | | |
| 7 8 9 10 11 (2) PCB301 | | please refer to original manual. | |
| 7 8 9 10 11 (2) PCB301 | See | | |
| PCB101 PCB101 PCB301 | | (13) | |
| PCB101 PCB101 PCB301 | | | |
| PCB101 | 7 | | |
| PCB101 | | | |
| PCBIOI 10 11 12 PCB30I | | | |
| PCB301 | | | |
| PCB301 | 11) (12) | | |
| PCB301 | | | |
| PCB301 | | | |
| PCB301 | PCBIOI | | |
| PCB301 | | 1 . | |
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| | a library | • | |
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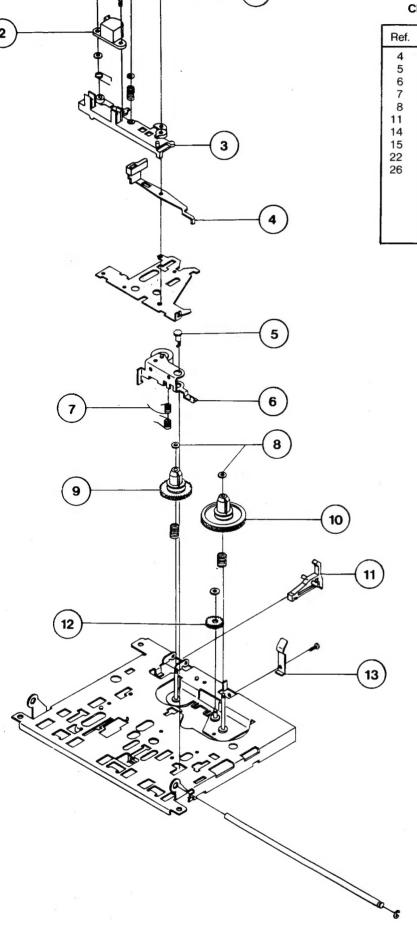


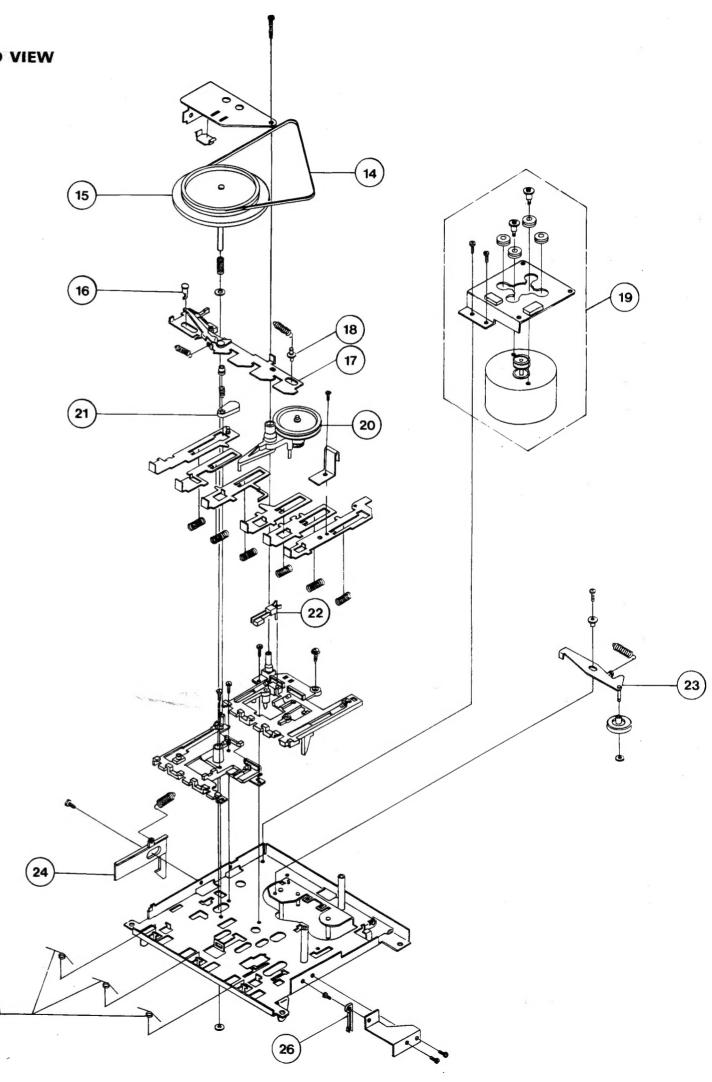
DECK EXPLODED VIEW

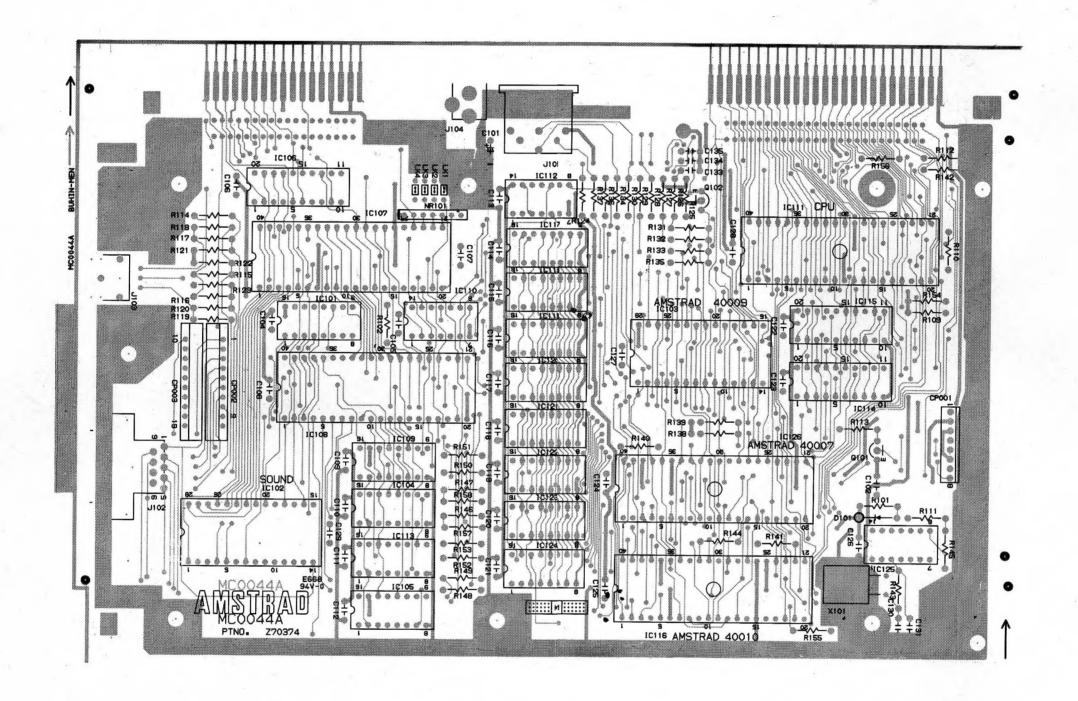
CPC464 CASSETTE MECHANISM PARTS LIST

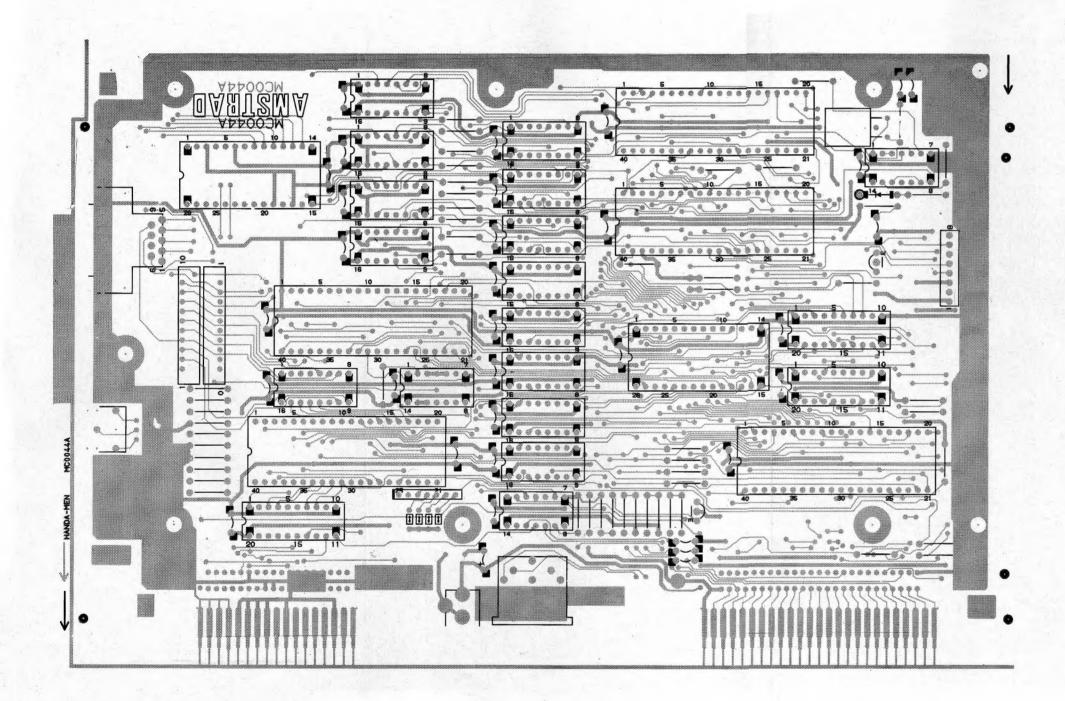
| Ref. | Description | Part No. |
|------|-----------------------------|----------|
| 4 | Sensing Plate | |
| 5 | Pinch Roller Arm Stopper | |
| 6 | Pinch Roller | 809162 |
| 7 | Pinch Roller Spring | 809161 |
| 8 | Polyslider Washer | 809175 |
| 11 | Record Safety Lever | 809158 |
| 14 | Main Belt | 170204 |
| 15 | Flywheel | 809156 |
| 22 | Switch, Leaf LSA-1120RC | 809157 |
| 26 | Switch, Leaf LSA-115D | 170212 |
| | Actuator Spring | |
| 1 | Head Record Play-Back | 170201 |
| | Head, Erase | 170202 |
| | Motor Assembly | 170211/A |
| | Cassette Mechanism Complete | |

^{*} For parts not listed in this please refer to original manual.

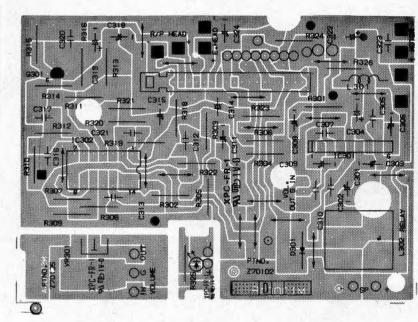




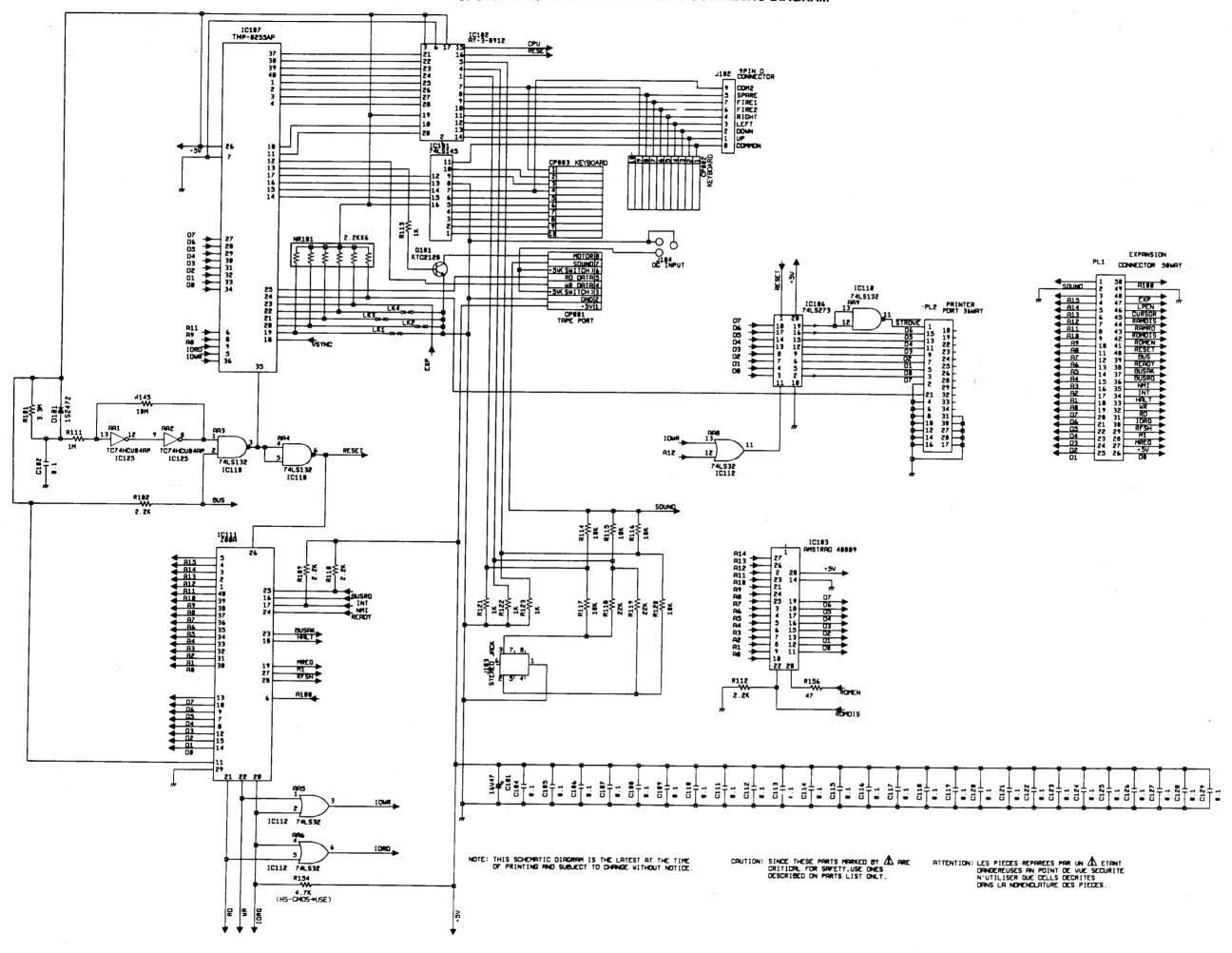




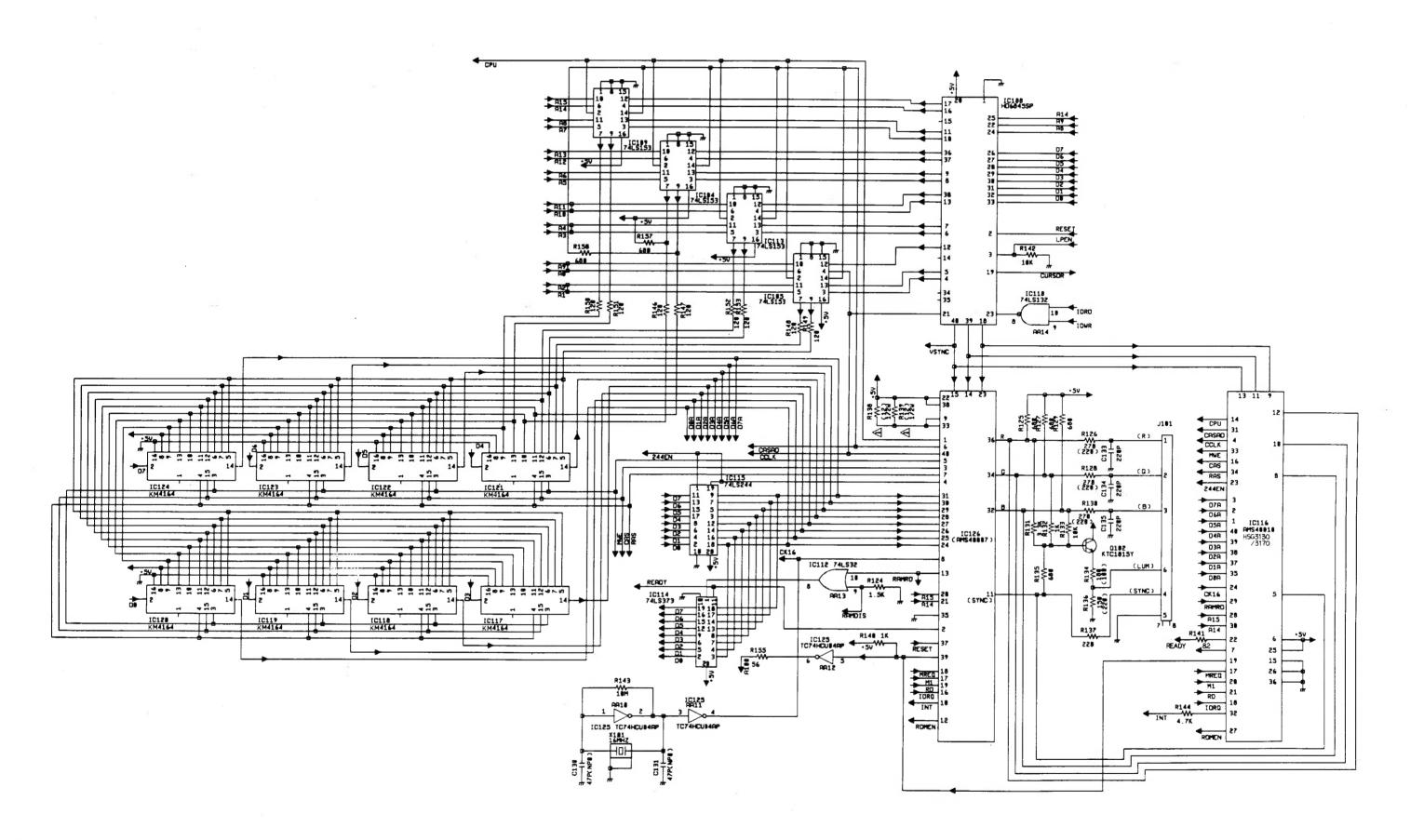
CPC464 TAPE P.C.B.



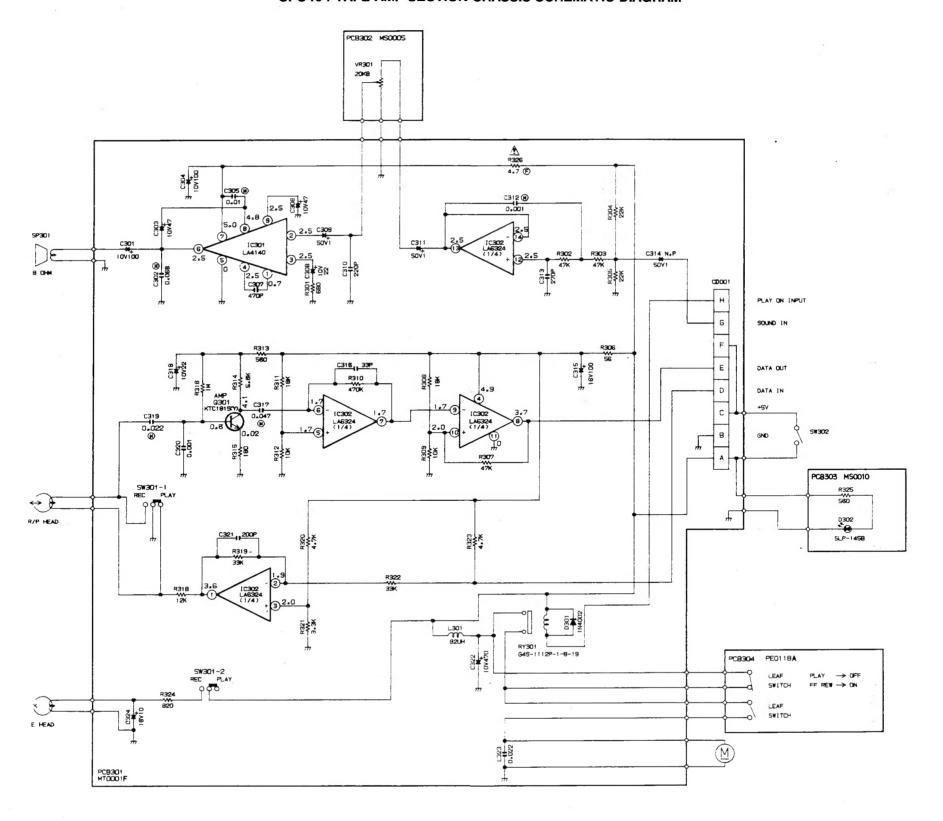
CPC464 CPU/PIO SECTION CHASSIS SCHEMATIC DIAGRAM



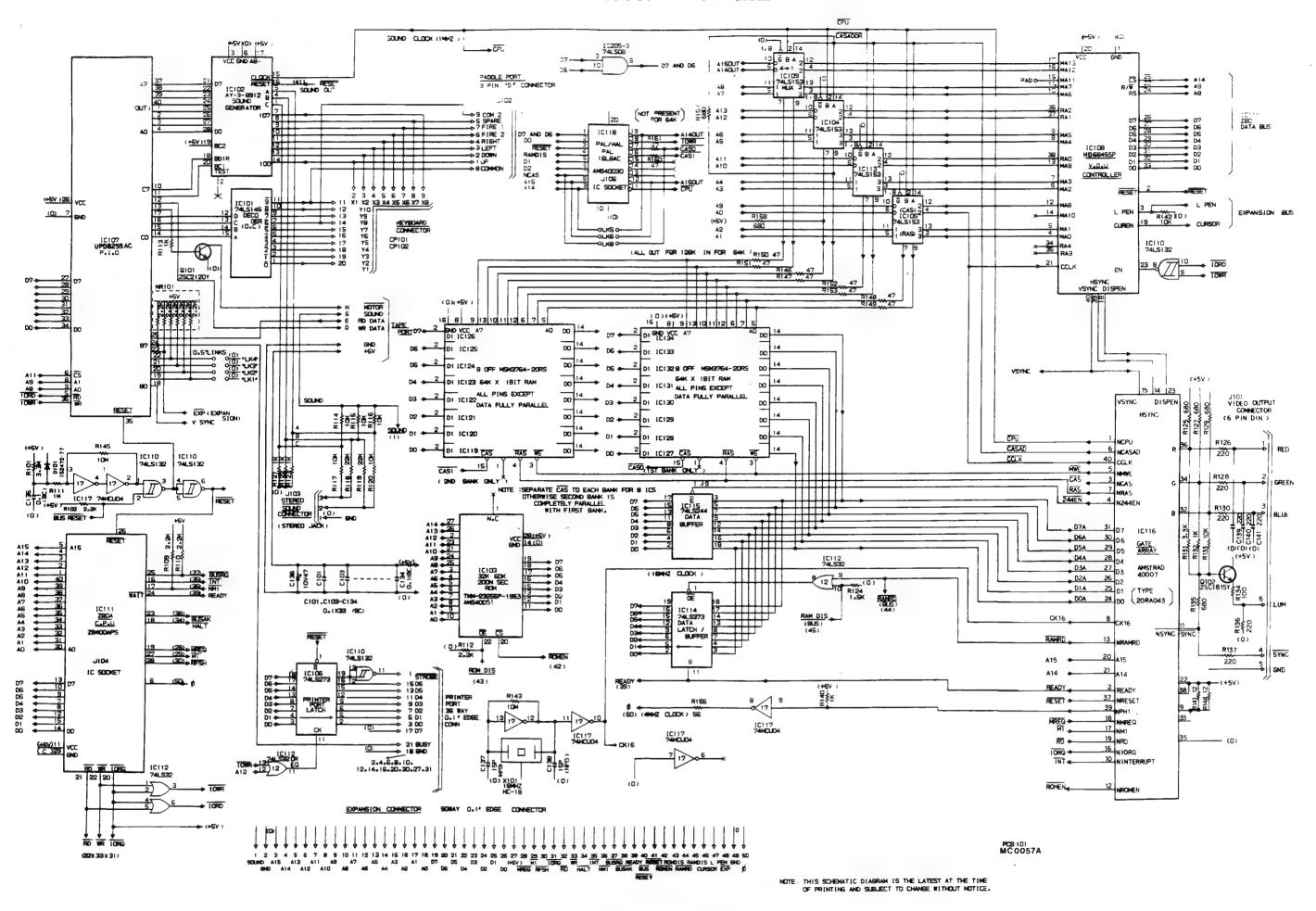
CPC464 RAM/CRTC/ULA SECTION CHASSIS SCHEMATIC DIAGRAM

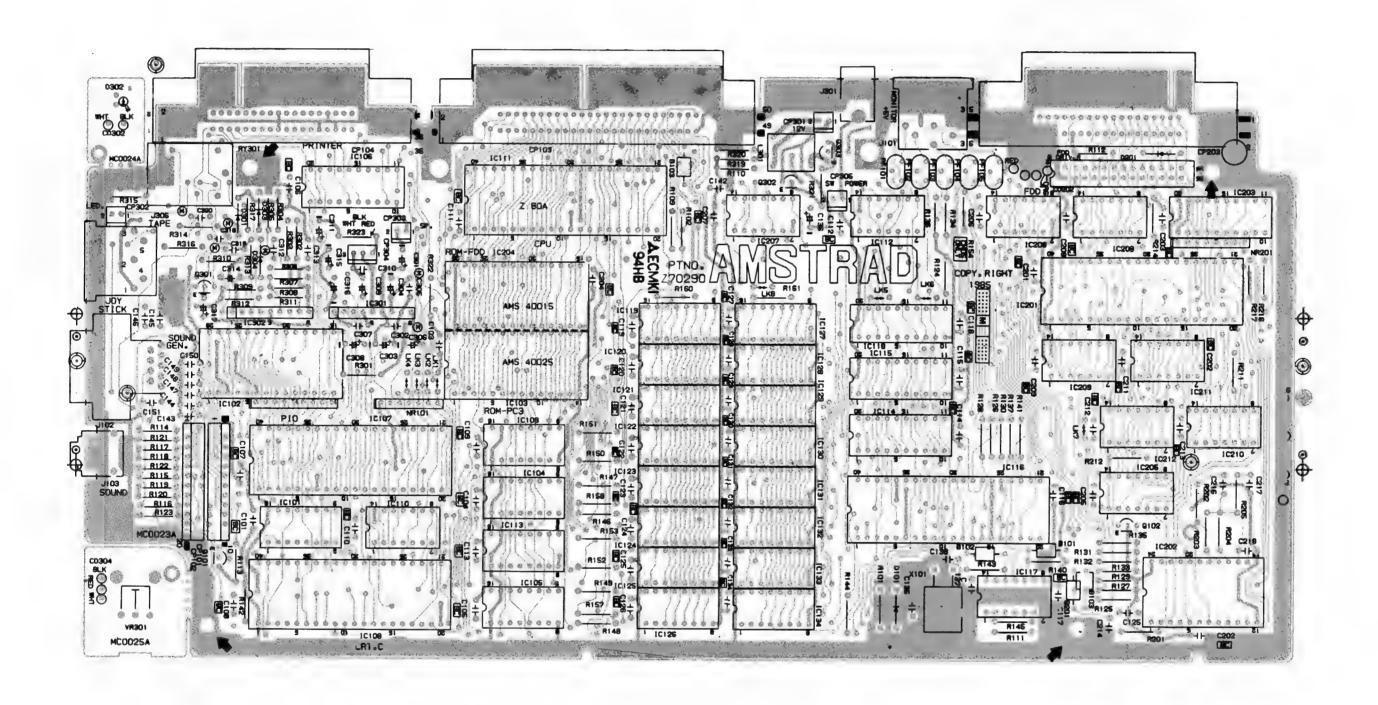


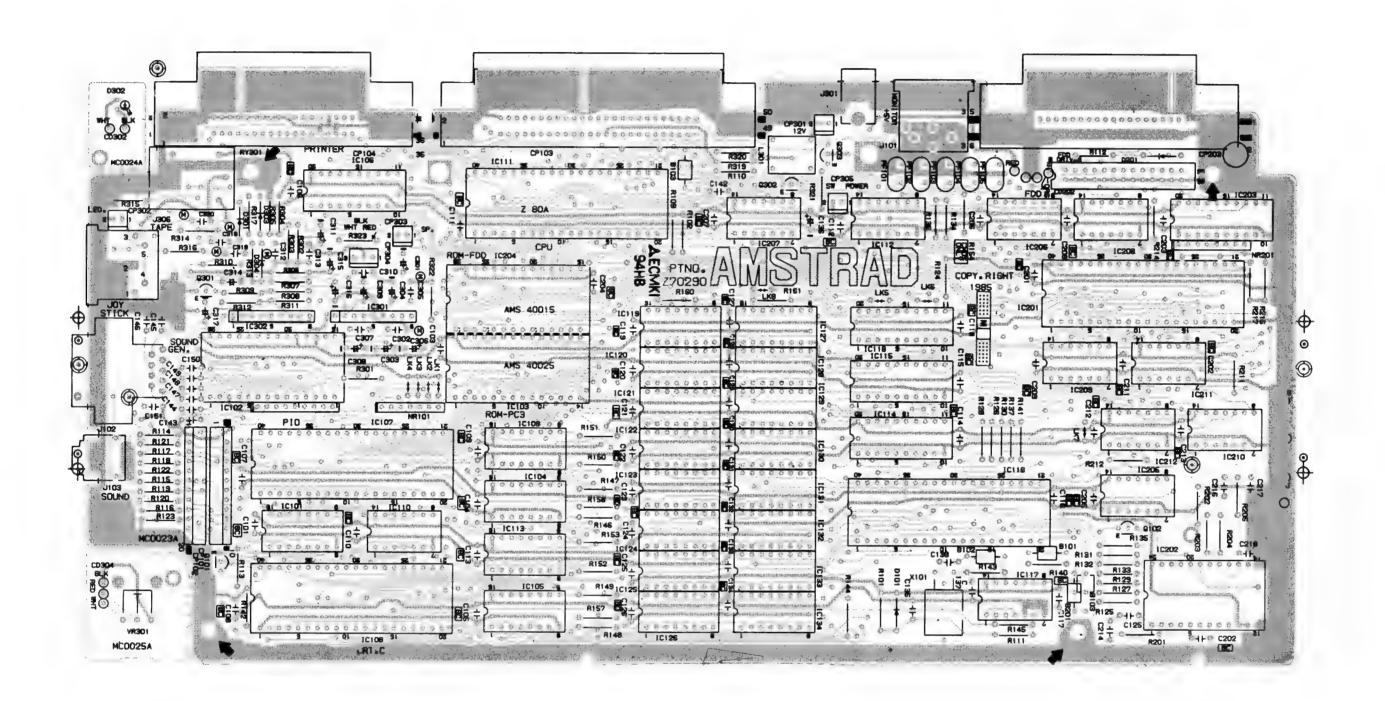
CPC464 TAPE AMP SECTION CHASSIS SCHEMATIC DIAGRAM



CPC6128 CHASSIS SCHEMATIC DIAGRAM







SYMBLE LIST

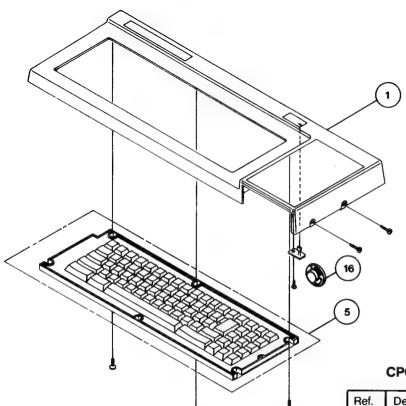
| RESISTOR | | |
|---------------------|---------------------|---|
| SEMI-FIXED RESISTOR | | |
| CAPACITOR | | * |
| JUMPER | <> | |

CPC6128 SECTION

CPC6128/III ELECTRICAL PARTS LIST

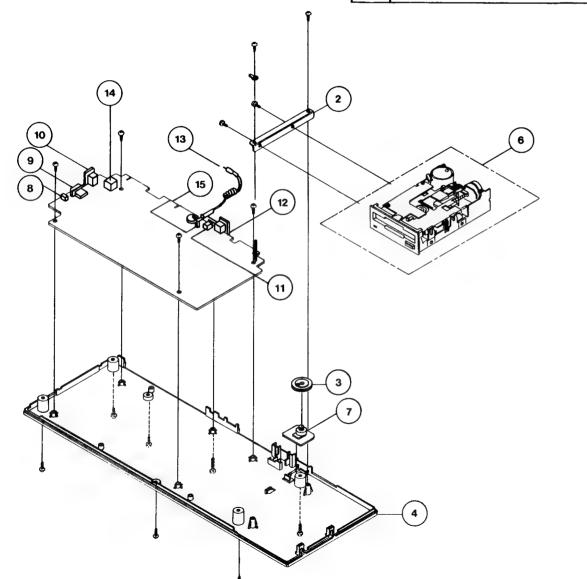
| Ref. No. | Description | Part No. | | | |
|--|---|---|--|--|--|
| IC's | | | | | |
| IC101 IC102 IC103 IC104 IC105 IC106 IC107 IC108 IC109-124 IC201 IC202, 203 IC204 IC205 IC206 IC301 | IC Amstrad 40226 IC TMP-8255AP IC AY-3-8912 IC DN74LS145 IC Z8400APS IC DN74LS174 IC DN74LS175 IC Amstrad 40025 IC KM4164B IC Z765APS IC DN74LS38 IC TC74HC14AP IC Amstrad 40015 IC SED9420CAC IC LA6358S | 40226 170105 40001 170101 40080 171387 176085 40025 170110 40018 40019 171033 40015 171034 | | | |
| IC302 | IC LA63385 IC LA4140 | 170814 | | | |
| Transistors | | | | | |
| Q101, 102, 104, 201 | | 170447 | | | |
| Q103 | TR KTA950Y | 170448 | | | |
| Diodes | | _ | | | |
| D101, 301, 302 D303 D304 | D 1S2472T D 10E1 FA8 LED SLP-155B | 170115 170865 170866 | | | |
| Crystals | | | | | |
| X101 | Crystal HC-49/U 16.00MHz | I 170908 | | | |

| Ref No. | Description | Part No. | | | |
|---|---|--|--|--|--|
| Sockets | Sockets | | | | |
| J101 J102 J103 J301 J306 | Jack DIN Socket D Sub 9 Jack, RCA 3.5 Jack, DC Jack, DIN | 170025 170023 170022 170024 170850 | | | |
| Variable Resist | ors | | | | |
| VR301 | VR, Rotary 20kΩ | 170807 | | | |
| Switches | Switches | | | | |
| SW101 SW301 | Switch, Keyboard Switch, Slide | 170858 170906 | | | |
| Fuses | | - | | | |
| R301 | Fuse 4.7Ω | 170866 | | | |
| Miscellaneous | | | | | |
| FDD201 RY301 SP301 NR101 NR102 NR201 | Floppy Disc Drive EME-156V Relay Speaker Resistor Network 2.2kΩ x 6 Resistor Network 2.2kΩ x 8 Resistor Network 680Ω x 6 | 190005 170123 170124 170131 170132 170133 | | | |

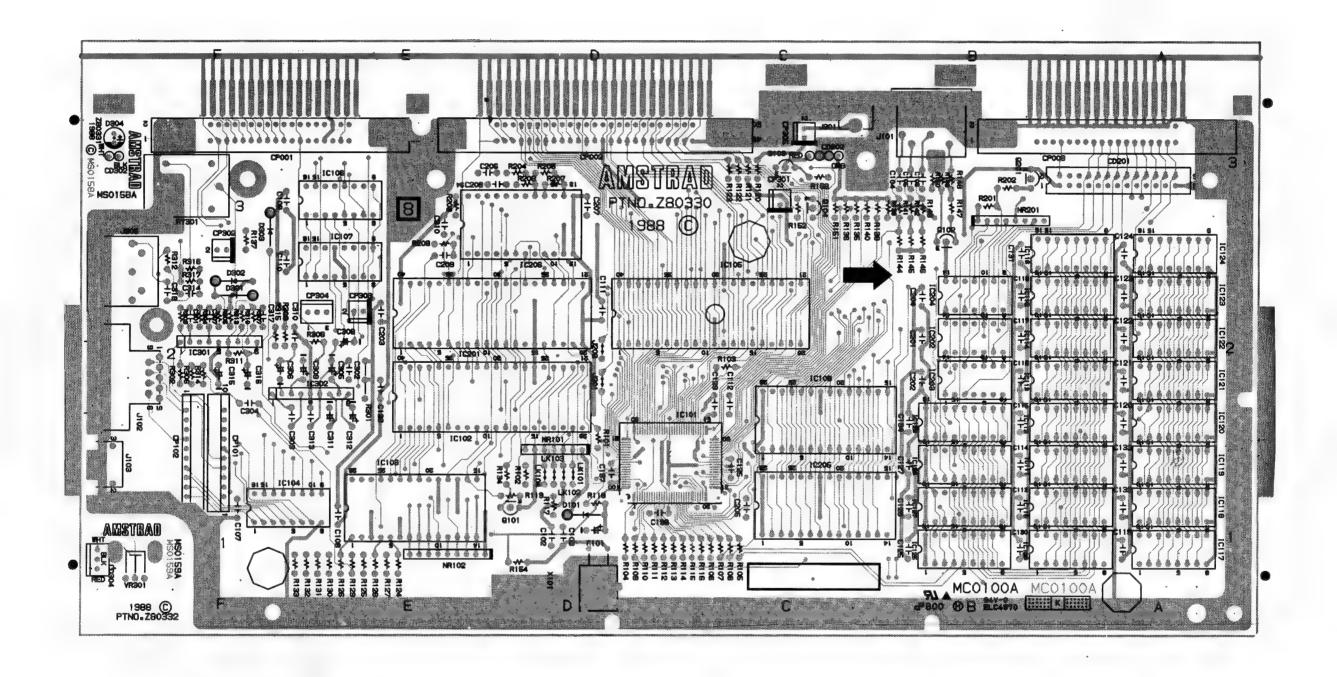


CPC6128/III CABINET PARTS LIST

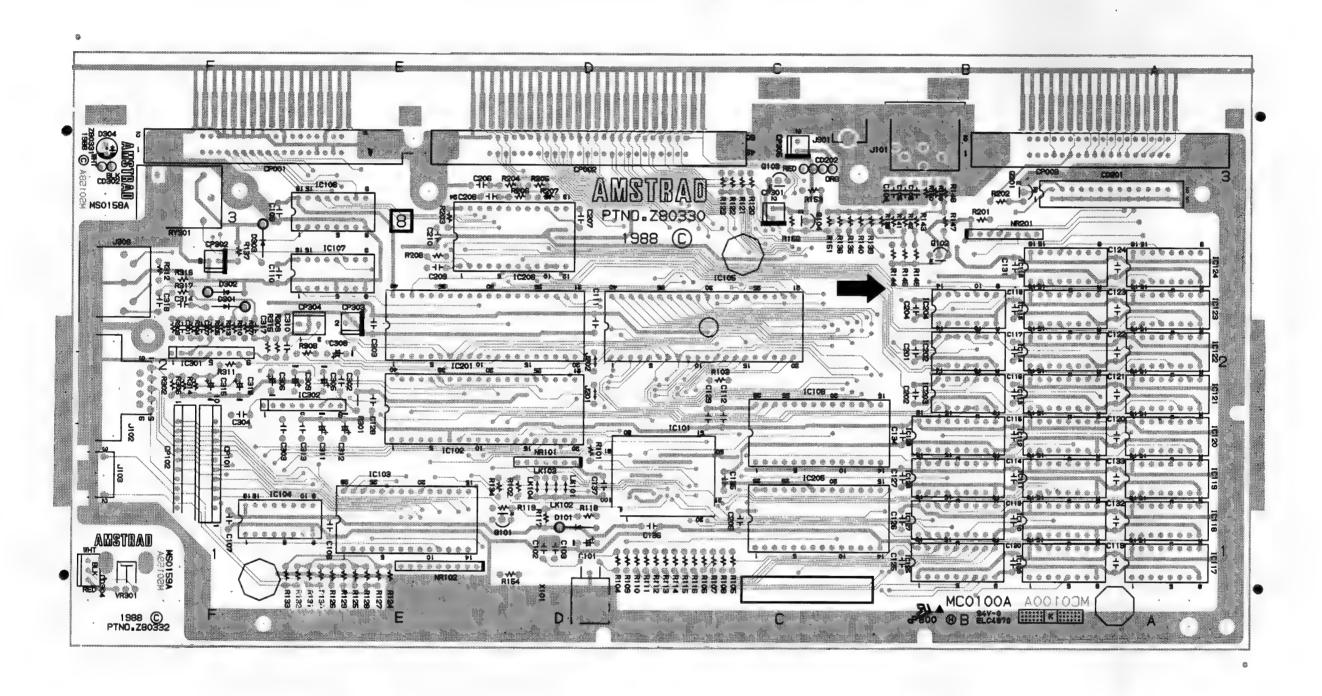
| Ref. | Description | Part No. | |
|------|--------------------------|----------|---|
| 1 | Cabinet, Top Assembly | 170901 | |
| 2 | Frame, FDD | 171007 | |
| 3 | Knob, Volume | 170902 | l |
| 4 | Cabinet, Bottom Assembly | 170903 | |
| | | | |



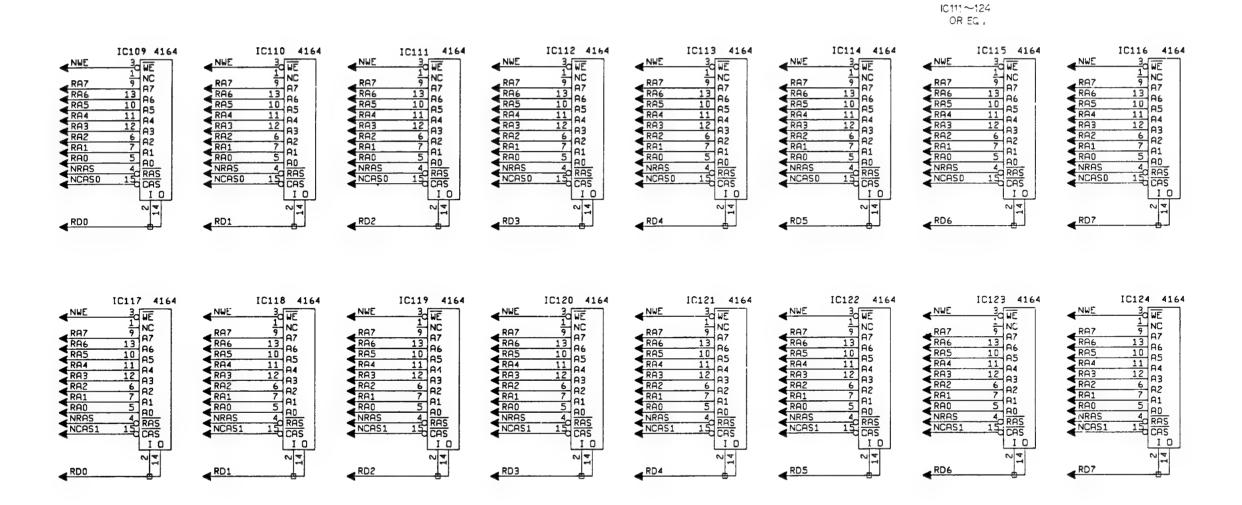
CPC6128 MAIN/LED/VOLUME P.C.B. (Top View)



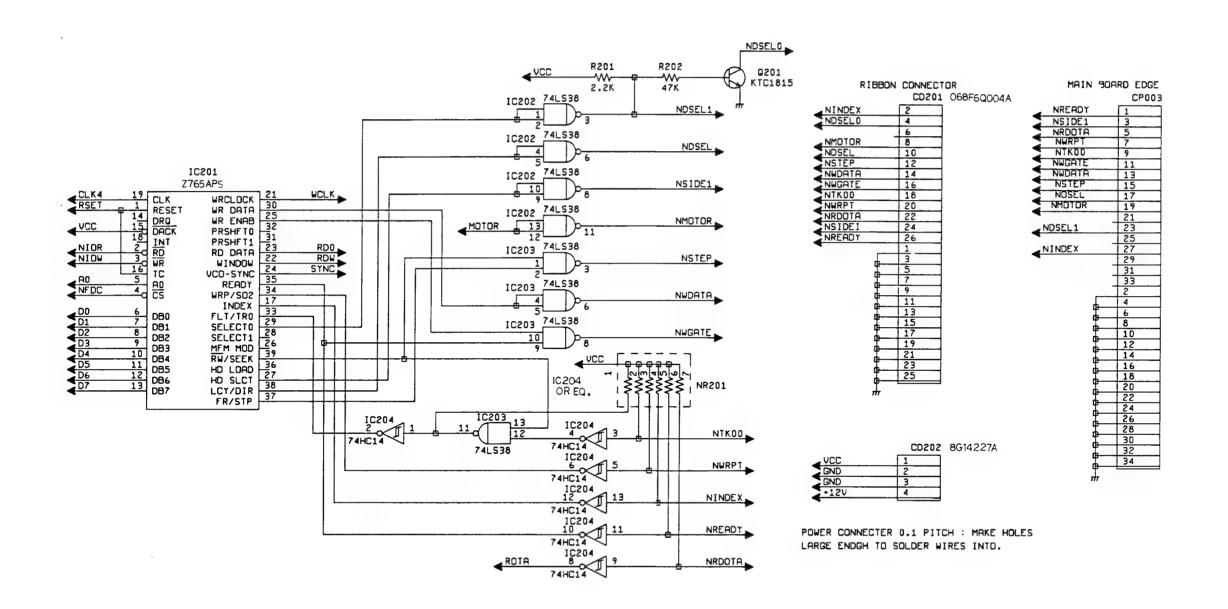
CPC6128 MAIN/LED/VOLUME P.C.B. (Bottom View)



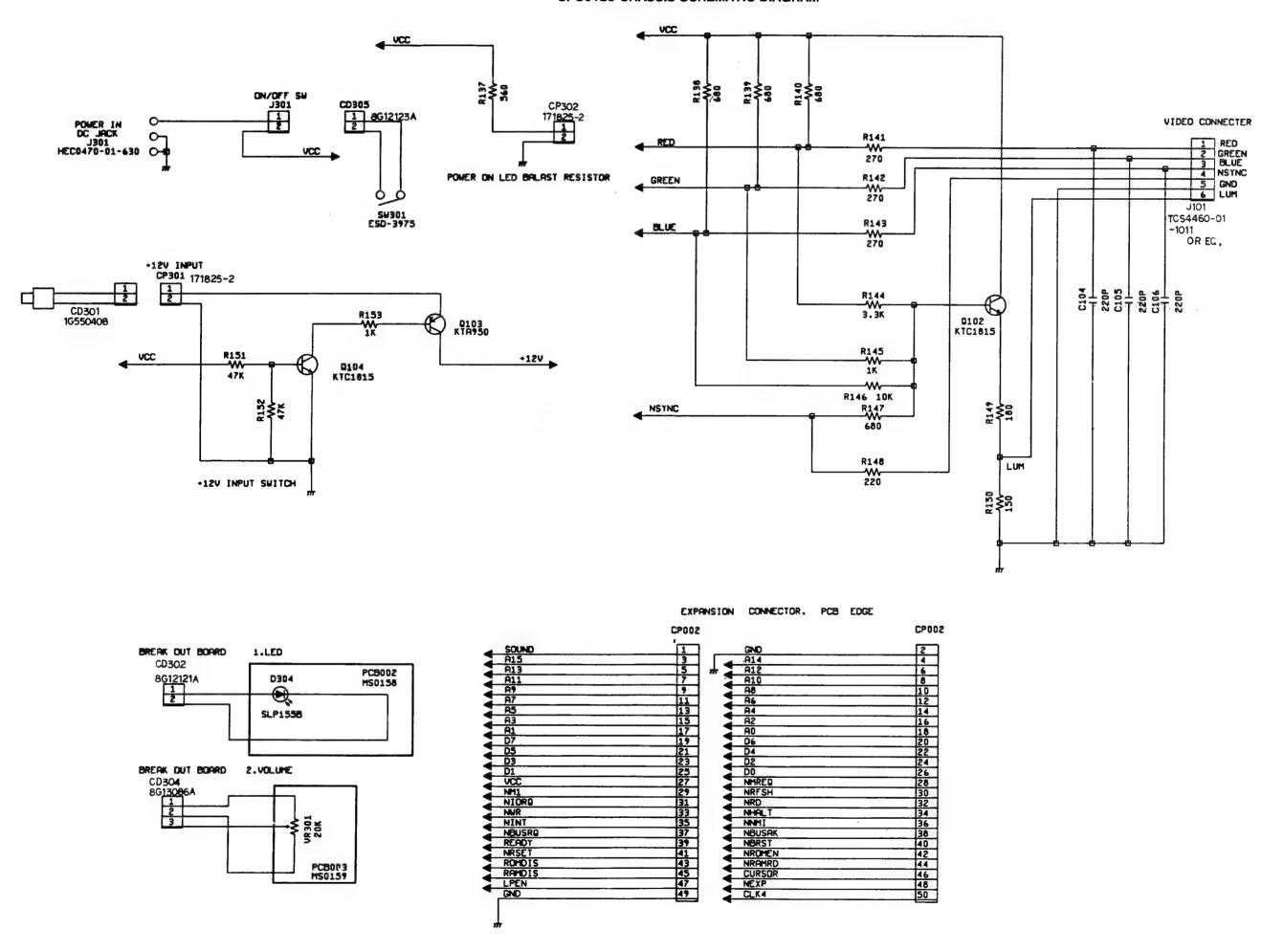
CPC6128 RAM SECTION CHASSIS SCHEMATIC DIAGRAM



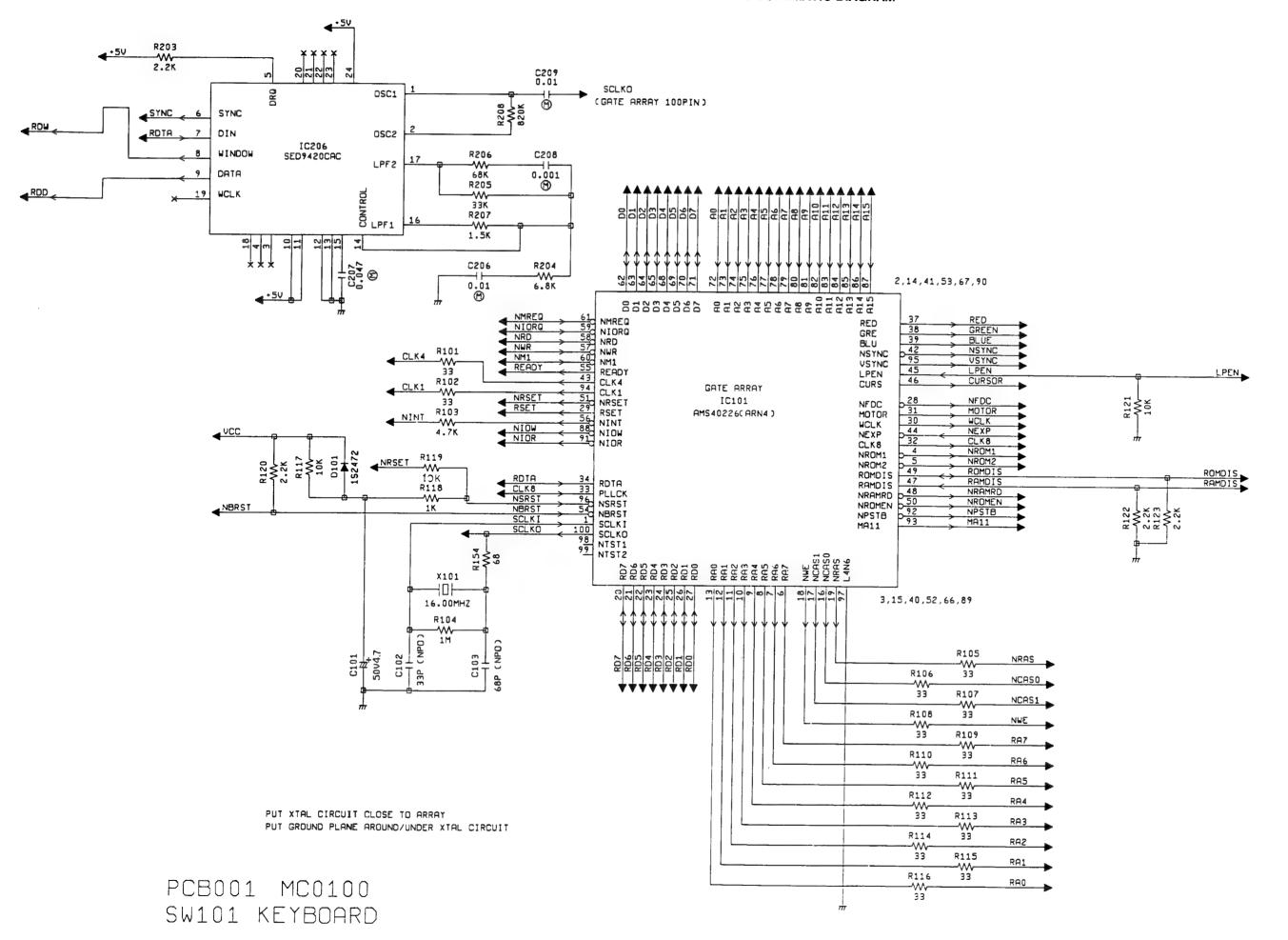
CPC6128 CPU SECTION CHASSIS SCHEMATIC DIAGRAM

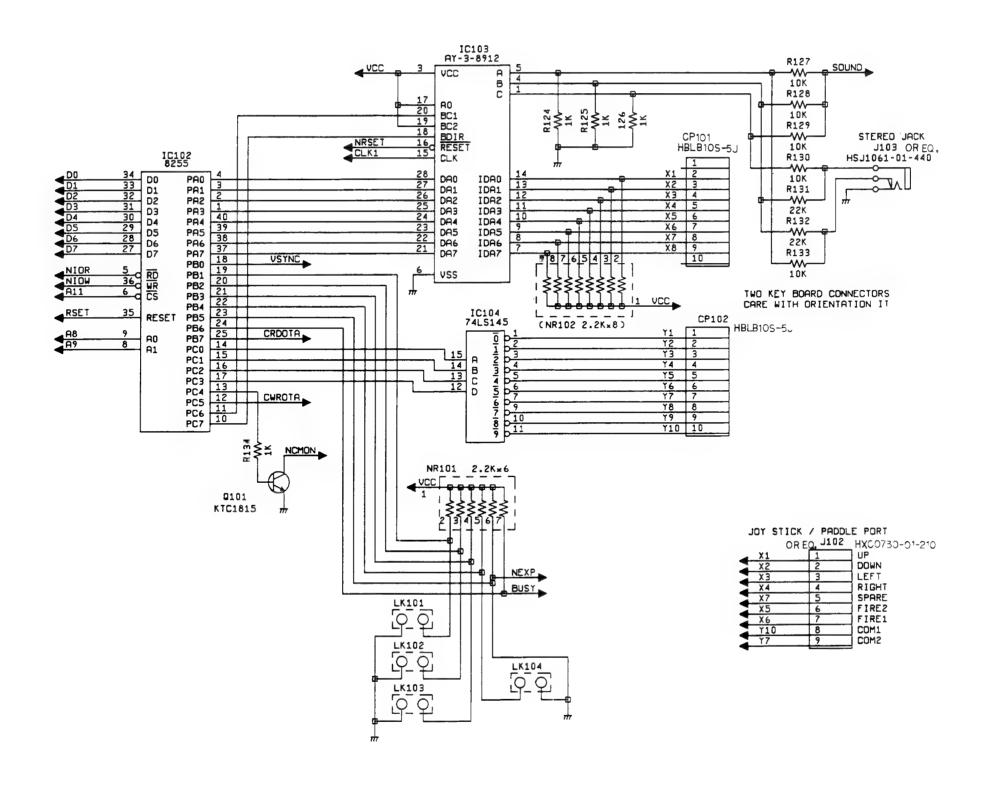


CPC6128 CHASSIS SCHEMATIC DIAGRAM

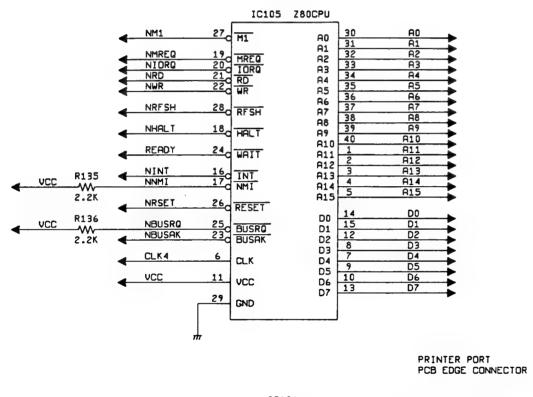


CPC6128 ULA/DS SECTION CHASSIS SCHEMATIC DIAGRAM



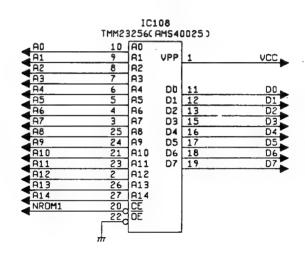


CPC6128 CPU/ROM SECTION CHASSIS SCHEMATIC DIAGRAM

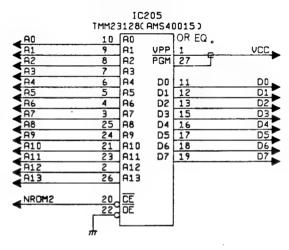


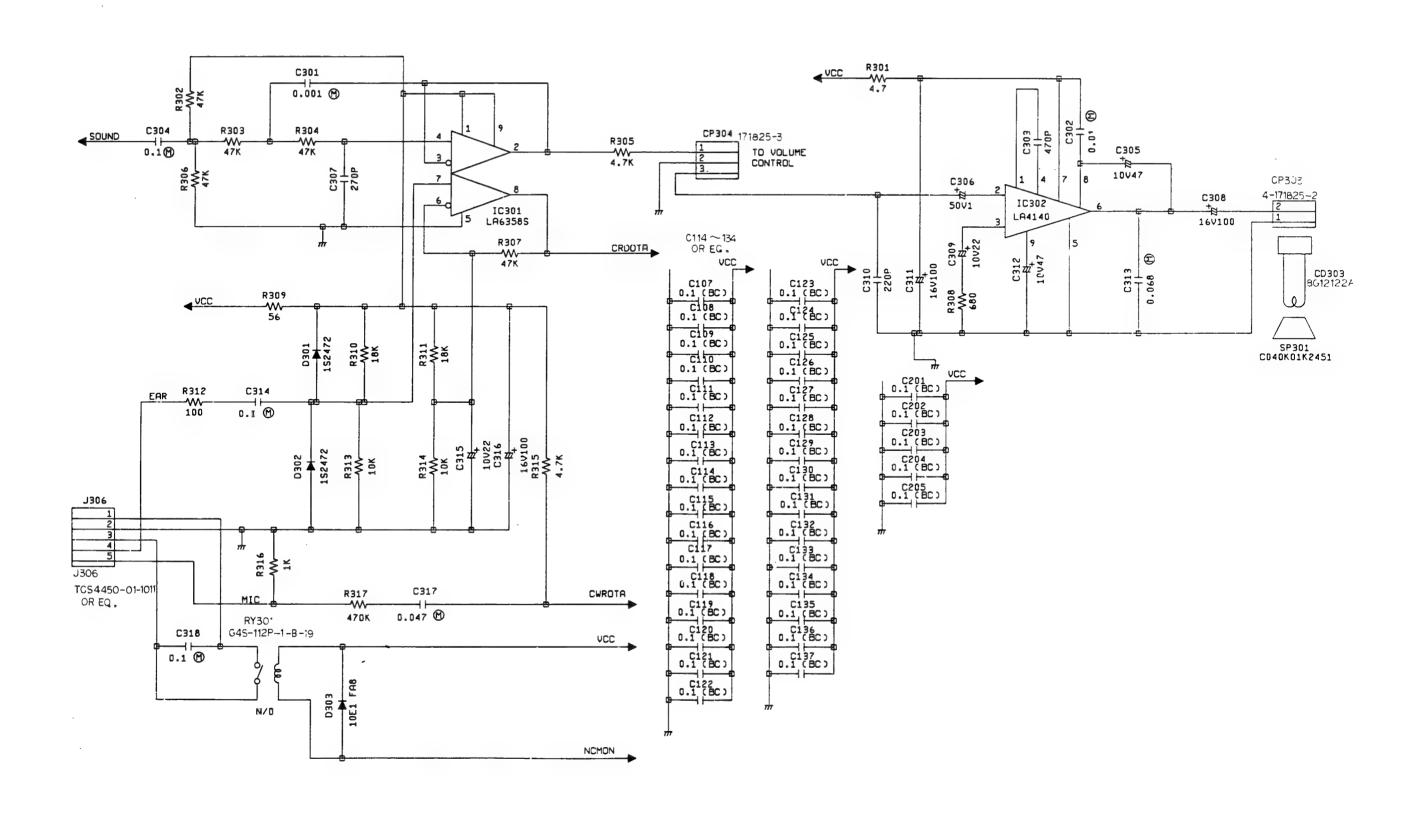
| CP001 | CP00

SYSTEM ROM.APPEARS AT TWO ADDRESSES 0000-3FFF AND D000-FFFF

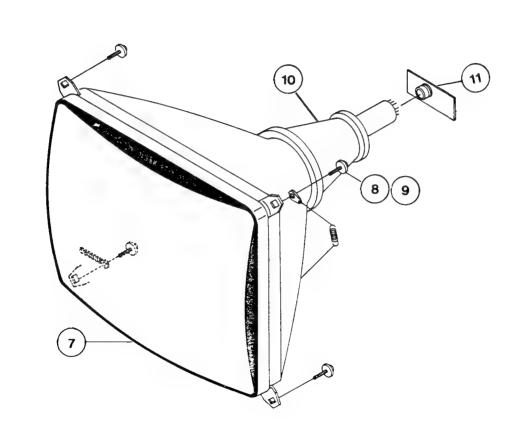


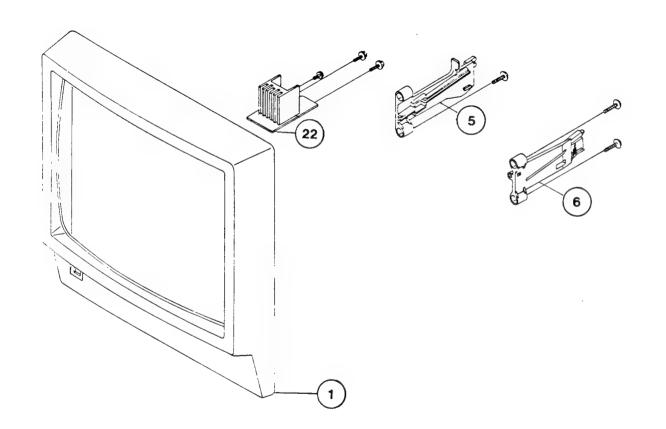
FLOPY DISC CONTROLER ROM

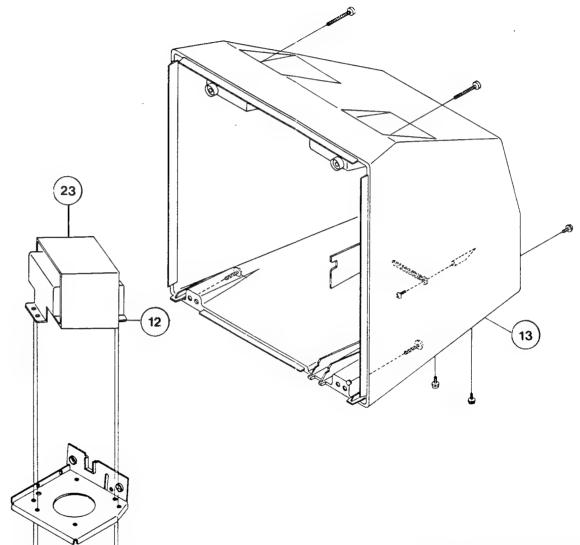




GT65 SECTION







GT65 CABINET PARTS LIST

| Ref. | Description | Part No. | |
|---------------|-------------------|-----------|--|
| 1 | Front Cabinet | 170150 | |
| 2 | Cable Clamp | 170502 | |
| 5 | Bracket PCB (L) | 170153 | |
| 6 | Bracket PCB (R) | 170154 | |
| 7 | CRT Green | 170507 | |
| 8 | Metal Washer CRT | 170508 | |
| 9 | Fixing Screw CRT | 170509 | |
| 10 | Deflection Yoke | 170510 | |
| 11 | CRT Socket | 170511 | |
| 12 | Power Transformer | S/170832 | |
| 13 | Rear Cabinet | 170155 | |
| 14 | Control Knob | 170514 | |
| 15 | Button Power | 170515 | |
| 16 | On/Off Switch | 170516 | |
| 17 | V. Hold Pot. | 170833 | |
| 18 | Contrast Pot. | 170518 | |
| 19 | Brightness Pot. | 170519 | |
| 20 | D.C. Cord | 170516 | |
| 21 | DIN Cord | 170157 | |
| 22 | D.C. Jack | 170834 | |
| 23 | u Metal Shield | 170512/SH | |
| Miscellaneous | | | |

170158 170159

FB701 | Transformer Flyback 0420120041 TH702 | Thermistor SDT100

CTM644 ELECTRICAL PARTS LIST

| | T | , | | |
|---|--|---|--|--|
| Ref. No. | Description | Part No. | | |
| IC's | | | | |
| IC401 IC402 IC501 IC502 | IC LA7800 IC LA7830 IC STK-7308 IC L78MG | 1400106 170444 170445 170446 | | |
| IC503 | IC UPC78M12 | 1422278 | | |
| Transistors | | | | |
| Q401, 402, 506 Q403 Q404 Q405 Q501 Q502 Q503, 505 Q504 Q801-803 | TR KTC1815-T TR 2SA950Y TR 2SC2271 TR 2SD1397 TR 2SD1207 TR 2SD880(Y) TR KTA1015Y TR 2SC2120Y TR 2SC3417 | 170447 170448 170449 170450 170451 170452 170453 170113 170454 | | |
| Diodes | | | | |
| D401, 410, 411 D402 D405, 407, 408 D406 D501-504 D505, 507 D506, 508 D509 D510 D511, 512 D901-903 | D IS2472T-77 DZ GZA11 Y BT D DFD05G D BB4-FC D 20E10 DZ RD3.6FB D DFC10E-KB4 D RGP-30J-5001L D SR-2M Avalanch D RGP30G-5001L DZ GZA6.2 Y BT | 170455 1400124 170456 1422116 170848 170458 1422115 170459 1400122 170459 1422114 | | |
| Coils | | | | |
| L401 L501 L502 L801 T401 T501 | Coil Linearity 21000002 Filter Line Across FK0b160MH14 Coil Degauss 8D140013 Coil Choke 100µH Trans Hori. Drive 305Y001 Trans Switching 8142006 | 170134 1400130 170842 1400148 170463 170845 | | |
| Switches | | , | | |
| SW401 SW501 | Switch, Slide SS-009-7H Switch, Push ESB-90197S | 900101 *170306 | | |
| Sockets | | | | |
| J501 J801 | Jack HEC0630-01-010 CRT Socket HPS0171 | 170844 170843-2 | | |
| Variable Resisto | rs | | | |
| VR401 VR402, 404 VR403 VR405 VR406 VR801 VR802 VR803 VR804 VR805 | VR Rot 500Ω $25B52$ VR SF $5k\Omega$ VR SF $5k\Omega$ VOAA00B53 VR Rot $20k\Omega$ K121K0Z21 VR $1k\Omega$ A00B13 VR SF $5k\Omega$ Red VR SF $5k\Omega$ Green VR SF $5k\Omega$ Blue VR SF $5k\Omega$ Red VR SF $5k\Omega$ Blue | 170315 1400227 170135 1400035 170466 1400197 1400198 1400199 1400200 1400201 | | |
| Fuses | | | | |
| F501 | Fuse FST 2A(T) 250V | 1400253 | | |

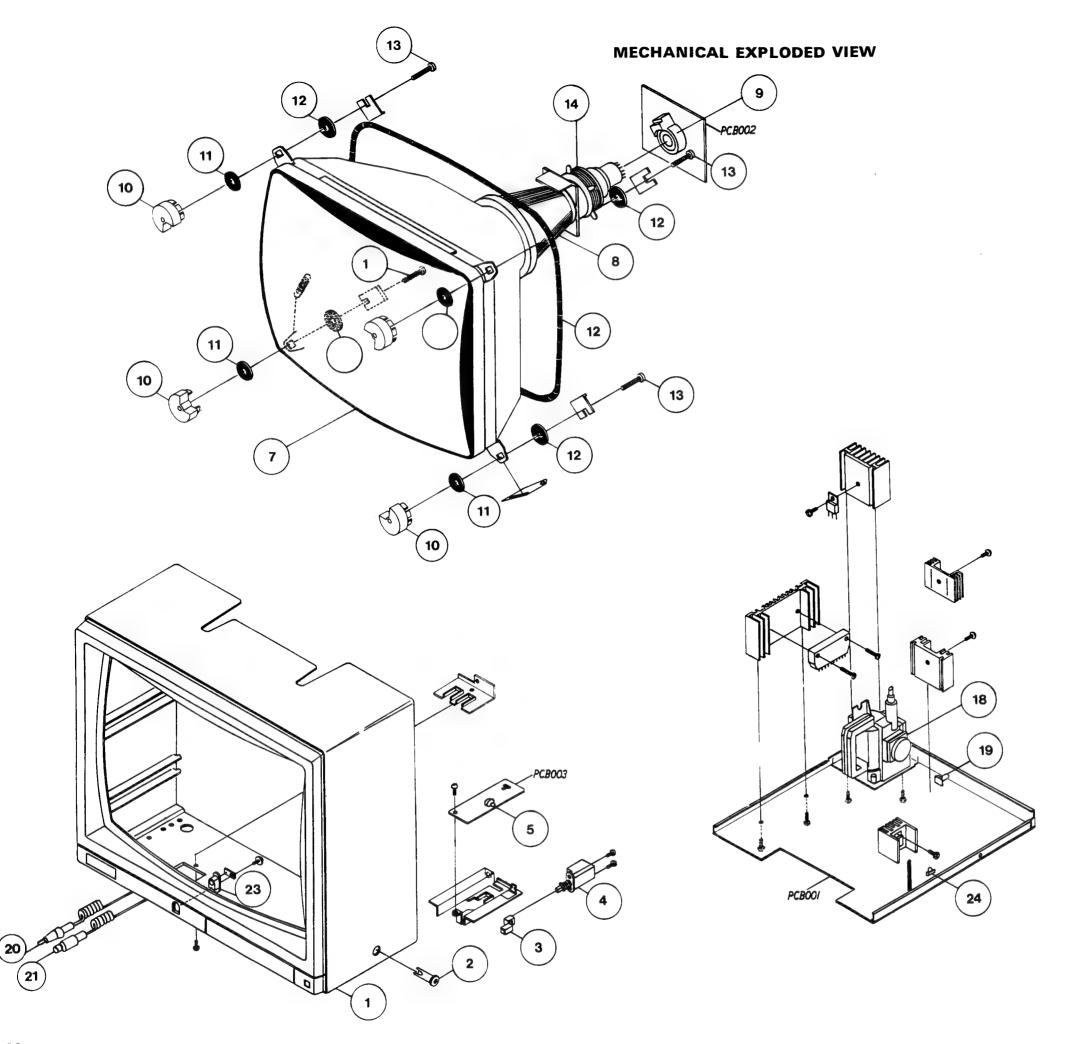
| Description | Ref. No. | Part No. | | |
|---|---|---|--|--|
| Metal Oxide Resistors | | | | |
| 0.27 Ω /2W 1 Ω /3W 10 Ω /4W 15 Ω /2W 33 Ω /2W 220 Ω /2W 1k Ω /3W 1.8k Ω /2W 3.9k Ω /1W | R513 R502 R511 R512 R509 R433 R503 R427 R505 R805, 808, 812 | 171071 170416 10008 170410 170411 809229 176557 170137 170407 170408 | | |
| Fuse Resistors | | | | |
| 0.82Ω/1W 3.3Ω/½W 8.2Ω/¼W 33Ω/½W | R437 R438 R444 R520 | 1422141 170138 170404 175065 | | |
| Cement Resist | ors | | | |
| 15Ω/7W | R436 | 170417 | | |
| Electrolytic Cap 1 μVF/250V 22μF/250V 100μF/35V 100μF/50V 100μF/400V 220μF/35V 220μF/160V 470μF/16V 470μF/25V 470μF/35V 1000μF/10V 2200μF/25V | C506 C430 C425 C512 C505 C507 C515 C405 C519 C402, 522 C518 | 1422152 170419 1422157 171089 170423 20035 170851 176358 20044 1422262 130105 170425 | | |
| Plastic Capacito | ors | | | |
| 0.0056μF | C415 | 174818 | | |
| 0.1μF/250V 0.82μF/200V 0.82μF/1.6kV | vlene Capacitors C501 C429 C431 | 171609 170435 170139 | | |
| Polyester Capac | | ı | | |
| 0.15μF/100V | C422 | 170140 | | |
| Ceramic Capaci 2200pF/4kV 0.001μF/2kV 0.0015μF/2kV 0.0022μF/2kV | C513 C511, 801 C432, 510, 514 C502-504 | 170430 1422147 170432 140023 | | |
| Ref. No. | Description | Part No. | | |
| Miscellaneous | | | | |
| FB401 TH501 V001 ICP501 ICP502 CD005 CD007 | Transformer Flyback 3714009 Degauss Element Tube Cathode Ray A34JLL70X10 ICP-N20 ICP-N38 Cord DC Cord DIN | 170468 1400195 170307-A 150442 170136 170316/A 170317/A | | |

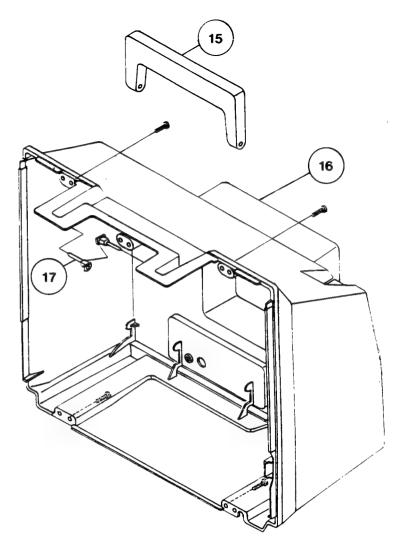
CTM644 SECTION

CTM644 ALIGNMENT INSTRUCTIONS

| STEP | FUNCTION | SIGNAL IN | SIGNAL OUT | METHOD | REMARKS | | | |
|------|--|-------------------------|--|--|--|--|--|--|
| 1. | Black and White Tracking. | | Monitor Screen. | Turn R & B Drive Controls VR804 & VR805 fully counterclockwise. Turn R, G & B Bias Controls VR801, 802, 803 fully counterclockwise. Set Ser. Nor. Switch to Ser. position. | Monitor connected to CPC464. | | | |
| 2. | Black & White Tracking. | | Monitor Screen. Monitor Oscilloscope. | Adjust 120V at the collector of Q802 with Brightness Control on the Oscilloscope. Rotate the screen control to fully counterclockwise & bring it back to obtain a dirn line of one prominent colour. Rotate the other two colours till a dim white line is obtained. | Monitor connected to CPC464 If required, adjust the colour control. | | | |
| 3. | | | If no satisfacto | pry results repeat step 2. | | | | |
| 4. | Vertical Size. | Program the paper edge. | Monitor Screen. | Adjust VR406 to obtain paper edge to be 145mm. | Use non magnetic ruler. | | | |
| 5. | Focus Adjustment. | Program the paper edge. | Monitor Screen. | Adjust Focus Control on the Flyback Tx for maximum definition & details. | Brightness & Contrast controls set to normal viewing. | | | |
| 6. | 5V Adjustment. | Switch on the Monitor. | A.V.O. Meter. | Connect A.V.O. across C518 & adjust VR501 to obtain 5V exactly. | | | | |
| | This adjustment (6; should not be disturbed under normal conditions. | | | | | | | |
| 7. | Sub Brightness Control. | Switch on the Monitor. | A.V.O. Meter. | Connect A.V.O. to collector of Q802. Adjust VR402 to read 123V - 124V. | Keep Brightness Control to maximum position. | | | |
| 8. | Sub H. Hold & H. Hold Adjustment. | Switch on the Monitor. | Frequency Counter. | Rotate H. Hold fully counterclockwise. 1. Adjust VR404 to read 14500Hz. 2. Adjust VR403 to read 15625Hz. | Read the Meter across CRT Heater & Earth. | | | |

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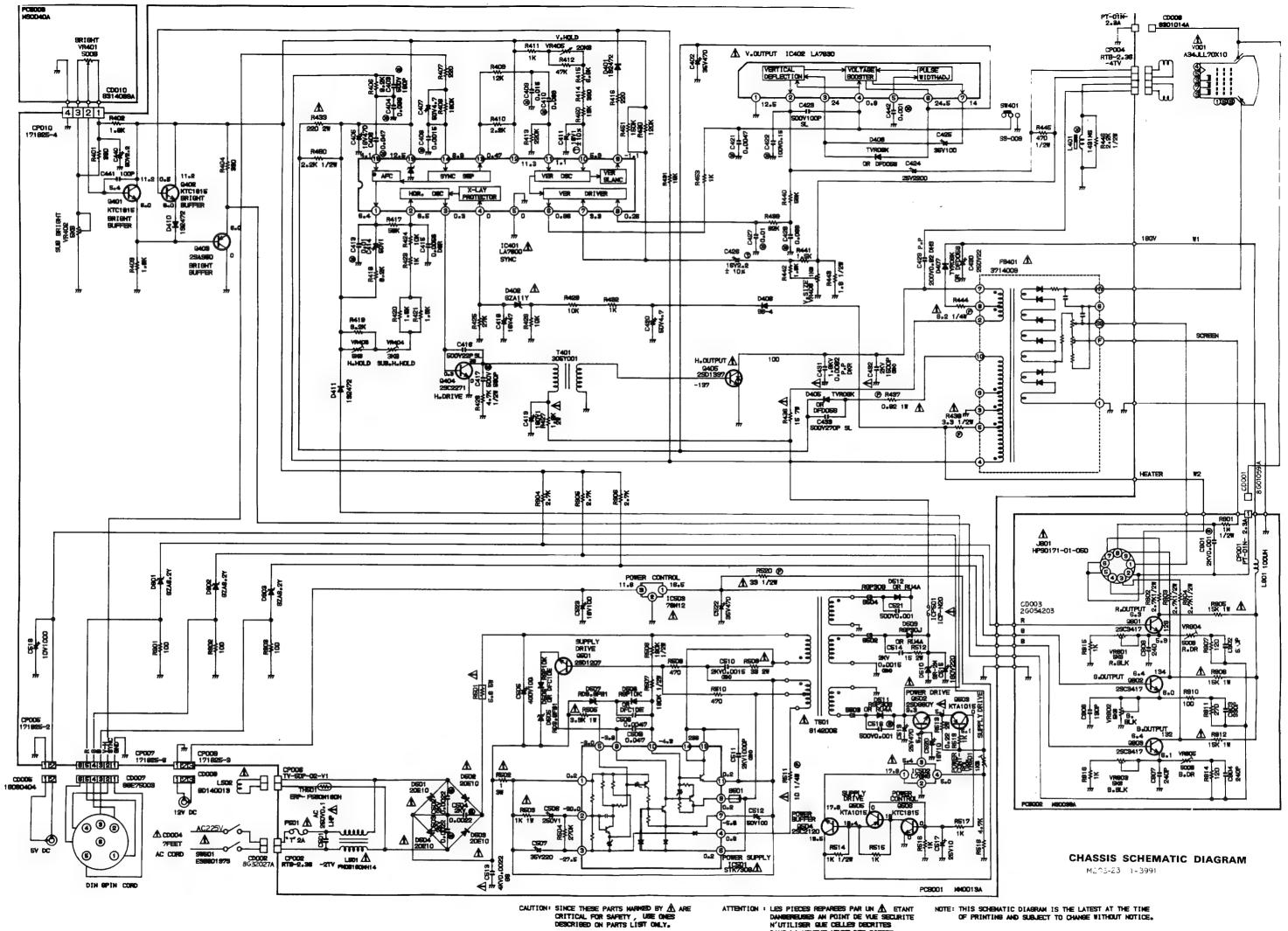




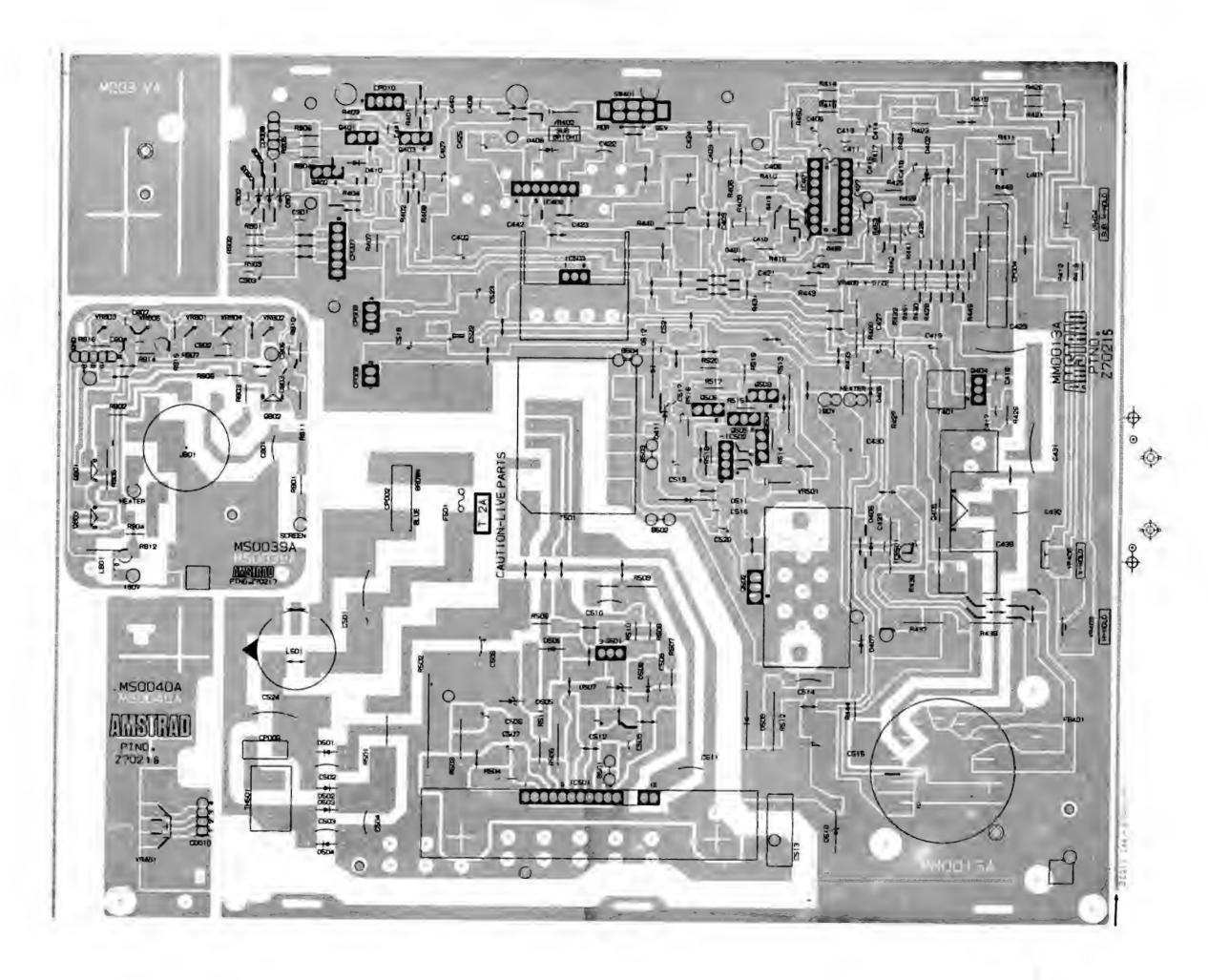
CTM644 MkII CABINET PARTS LIST

| Ref. | Description | Part No. |
|------|---------------|----------|
| 1 | Cabinet Front | 170841/A |
| 2 | Knob Control | 170304 |
| 3 | Button, Push | 170305 |
| 15 | Handle | 170312 |
| 16 | Cabinet, Back | 170313/A |

*For parts not listed above please refer to original manual



DANS LA NOMENCLATURE DES PIECES.



MAJOR COMPONENTS LOCATION GUIDE

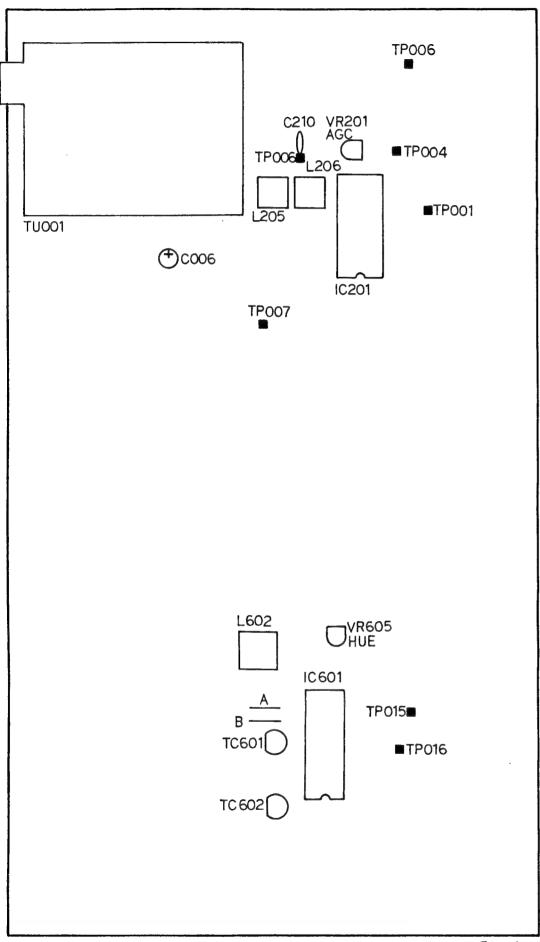


Fig.1

MP3 SECTION

MP3 ALIGNMENT INSTRUCTIONS

Equipment required: D.B. O'scope; A.V.O.; Pattern Generator; Sweep Mark Generator.

| STEP | FUNCTION | SIGNAL IN | SIGNAL OUT | METHOD | REMARKS |
|------|----------------------------|---|---|---|---|
| 1. | A.F.T. Adjustment. | _ | T.P. on the Tuner Pack. | Adjust L205 to read fixed voltage at TP006 using A.F.T. Switch from off to on. | _ |
| 2. | R.F. A.G.C. Adjustment. | Test Pattern at 80dB. | T.P.005 | Adjust VR201 to read 3.9V on A.G.C. pin on the Tuner. | _ |
| 3. | Hue Delay Adjustment. | Test Signal from Pattern Generator to Aerial in Socket. | At points "A" & "B" across Video Buffer circuitry Q602, Q603. | Set VR601-1 to max. wave form on the 'scope using VR605, TC6022, L602 to straight lines. | _ |
| 4. | A.P.C. Adjustment. | Test Signal from Pattern Generator to Aerial in Socket. Colour Bar selected. | 'Scope TP015 & TP016. | Adjust TC601 to max. output on the 'scope. | _ |
| 5. | Video I.F. adjustment. | Test Signal from Pattern Generator to Aerial in Socket. Standard Signal. | O'scope. | i) Connect 10kΩ variable between TP004 & ground. ii) Adjust L206 to obtain max. output on the response curve "A" at 39.5MHz. iii) Connect 100Ω between TP009 & PT010. Adjust IFT on Tuner to obtain max. output in Waveform "B". iv) Disconnect 10Ω variable & 100Ω resistors. Short C006 & C210 and reconnect sweep gen. to `i'P007 & TP006. v) Adjust L502 to place 39.5MHz marker on the ref. line on the response curve, "C". vi) Disconnect short between C006 & C210. | Connect H & V outputs of sweep gen. to test point TP001 and ground to TP007. Control signal in to prevent A.G.C. Set A.F.T. switch to on. |

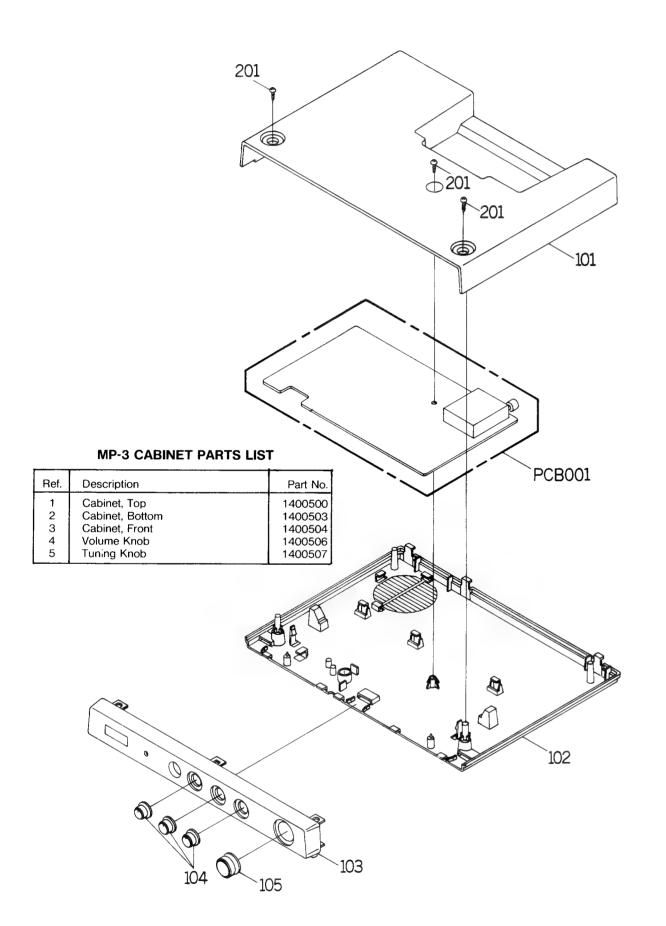
MP3 ELECTRICAL PARTS LIST

| Ref. No. | Description | Part No. |
|--|--|---|
| IC's | | |
| IC201 IC351 IC401 IC501 IC502 IC601 IC602 | IC LA7520N IC LA4140 IC M52684AP IC UPC574J-T IC LB8555D IC AN5620X IC AN5612 | 1409198 1400511 1400512 1400513 1400514 1400104 1400105 |
| Transistors | | |
| Q201 Q401, 402, 601- 603 | TR 2SC3000-AA TR 2SC945-T | 151718 1400109 |
| Diodes | | • |
| D501-506 D509 D601-603 | D 11E1TAI-T LED DZ GZA11 | 1400508 1400509 1400510 |
| Coils | | |
| L202 L204 L205 L206 L207 L301 L401 L501 L602 L605 | Coil 1.8µH Coil 16084SU Video IFT Coil 3600016 Coil 3600017 Coil 10µH Coil 12µH Coil 4.7mH Coil 270µH Coil 353001 Coil 5.6µH Coil 47µH | 1400626 1400663 1400517 1400518 1400523 1400519 1400520 1400521 1400522 1409212 1400524 |

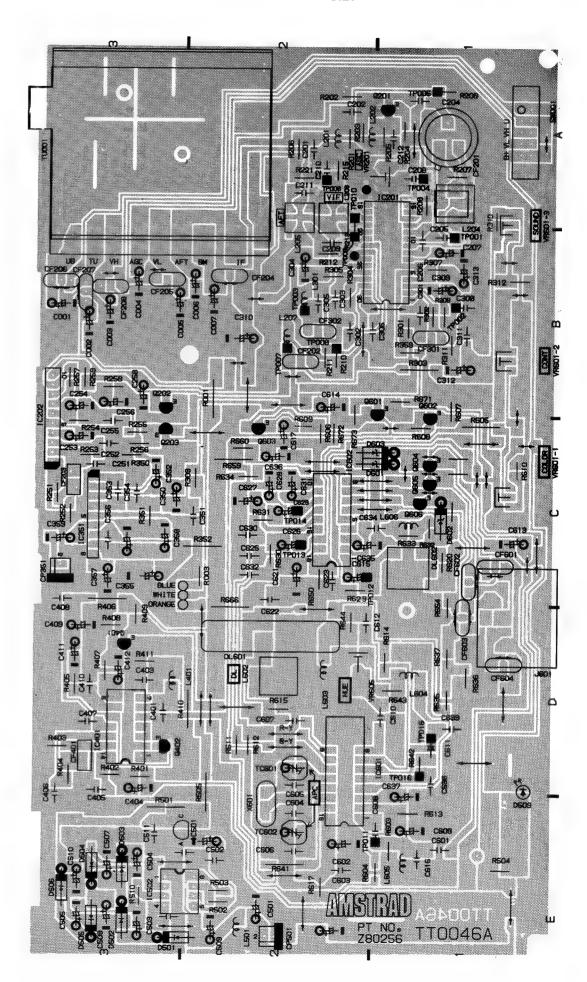
| Ref. No. | Description | Part No. |
|----------------------------------|---|--|
| Crystals | | \ |
| X601 X401 | Crystal NR-18 4.433619MHz Ceramic Oscillator CSB500F9 | 1400541 1400540 |
| Sockets | | |
| J601 | Jack, DIN | 1400525 |
| Variable Resisto | ors | |
| VR201 VR501 VR601 | VR SF 4.7kΩ VR Rot 100kΩ Tuning VR Rot 10k+10k+10k Con+Col+Snd | 1400526 1400527 1400528 |
| VR605 | VR SF 2.2kΩ Hue Con | 1400529 |
| Miscellaneous | | , |
| DL601 DL602 SP351 TU001 | Delay Line Glass EFDEN645A31F Delay ELT-10Z334 Speaker Tuner U | 1400535 1400536 1400537 1400539 |

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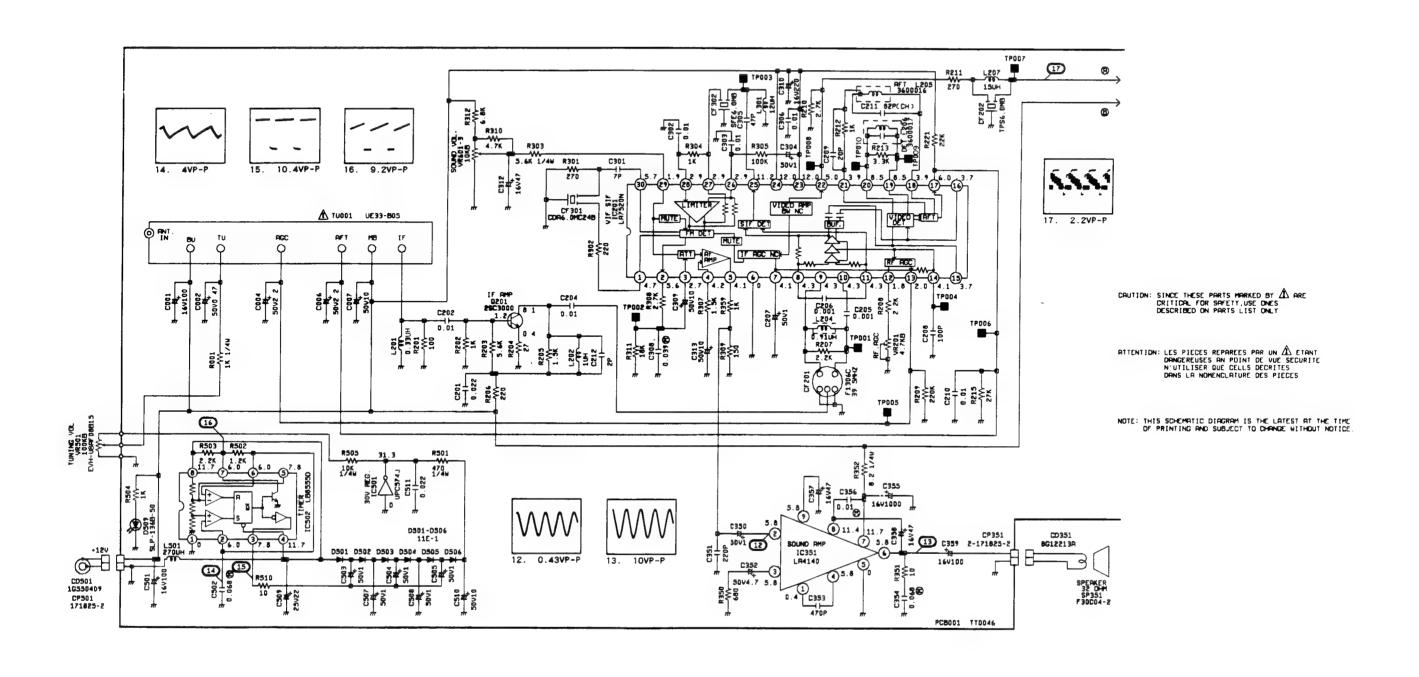
MP3 CABINET EXPLODED VIEW



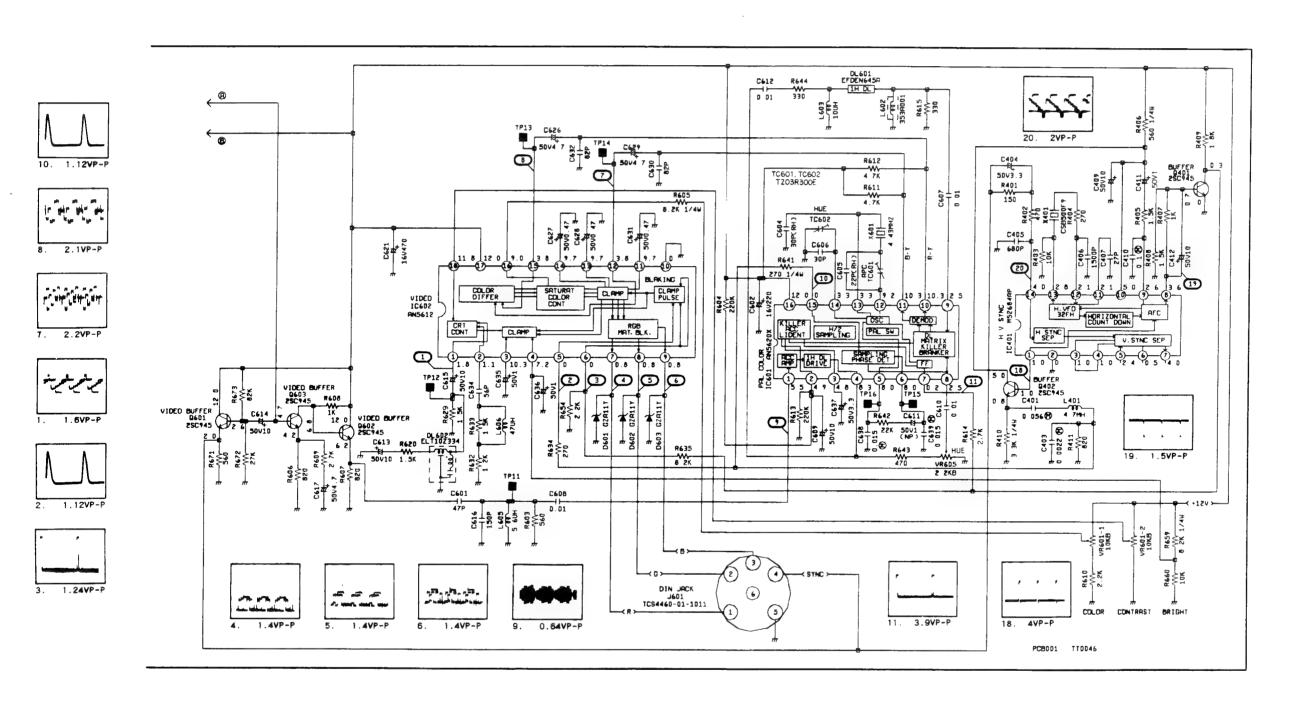
MP3 TUNER P.C.B.



MP3 TUNER SECTION CHASSIS SCHEMATIC DIAGRAM



MP3 VIDEO OUT CHASSIS SCHEMATIC DIAGRAM



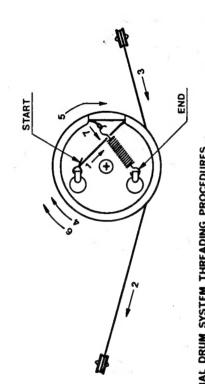
CRUTION: SINCE THESE PARTS MARKED BY A ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED ON PARTS LIST ONLY. RTTENTION: LES PIECES REPAREES PAR UN Â ETANT
DANDEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE DELLS DECRITES
DANS LA NOMENCLATURE DES PIECES.

NOTE: THIS SCHEMATIC DIRGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

CT1 SECTION

CT-1 ELECTRICAL PARTS LIST

| Ref. No. | Description | Part No. |
|---------------|-------------------------------|------------------|
| IC's | | 1 |
| IC2 | I IC TMS 3450 | 160420 |
| IC1 | IC TDA 1083 | 160421 |
| Transistors | | |
| Q3 | TR 8050C | 160414 |
| Q4 | TR 9014C | 160415 |
| Q1, 2 | TR 1417F | 160416 |
| Diodes | | |
| D1, 3 | D CDG-00 | 160417 |
| D2 | D AFC Diode FV1043 | 160418 |
| D4 | D 6.8V | 160436 |
| D5-13, 15 | D IN4148 | 190715 |
| D14 | DI 10V | 160419 |
| D16-21 | D Rectifier IN4001 | 192016 |
| Coils | | |
| L1, 2 | FM Ant Coil 1033 | 160422 |
| L4 | FM Osc Coil 1032 | 160423 |
| L3 | FM Trap Coil 1008 | 160424 |
| T6 | AM Osc Coil Red 6001 | 160425 |
| | Chock Coil 2T | 160431 |
| L5 | AM Ant. Coil | 160432 |
| L6 | LW Ant. Coil | 160433 |
| L8 | FM IF Chock Coil 2005 | 160434 |
| Α | Trimmer 16pF | 160405 |
| T1 | FM 1st IFT Orange F548-702985 | 160428 |
| T2 | FM 2nd IFT Green CEC-F14 | 160429 |
| T4 | FM Det IFT Pink F784-702987 | 160430 |
| CT | AM/FM PVC 5376 | 160100 |
| | | |
| Ref. No. | Description | Part No. |
| Switches | 2 | |
| SW3 | Slide Switch SK24F01-M9 | 160402 |
| SW1,2 | Slide Switch SK43D01-M9 | 160403 |
| Fuses | | |
| | Fuse T315mA | 160409 |
| Miscellaneous | , | |
| | Ferriter Bar | 160404 |
| | | 100101 |
| | Speaker 8Ω | 160406 |
| | Speaker 8Ω AC Transformer | 160406 160435 |



CT1 SCHEMATIC CIRCUIT DIAGRAM

